


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Bonanza 1023-613AS				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-38419			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	2616 FNL 126 FWL		SWNW	5	10.0 S	23.0 E	S			
Top of Uppermost Producing Zone	1985 FSL 887 FEL		NESE	6	10.0 S	23.0 E	S			
At Total Depth	1985 FSL 887 FEL		NESE	6	10.0 S	23.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 570		23. NUMBER OF ACRES IN DRILLING UNIT 516					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 25		26. PROPOSED DEPTH MD: 8686 TVD: 8489					
27. ELEVATION - GROUND LEVEL 5224			28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496					
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 2360	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 8686	11.6	I-80 LT&C	12.5	Premium Lite High Strength	280	3.38	11.0
							50/50 Poz	1180	1.31	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Gina Becker			TITLE Regulatory Analyst II			PHONE 720 929-6086				
SIGNATURE			DATE 02/06/2012			EMAIL gina.becker@anadarko.com				
API NUMBER ASSIGNED 43047523870000			APPROVAL  Permit Manager							

Kerr-McGee Oil & Gas Onshore. L.P.**BONANZA 1023-6I3AS**

Surface: 2616 FNL / 126 FWL SWNW
BHL: 1985 FSL / 887 FEL NESE

Section 5 T10S R23E

Uintah County, Utah
Mineral Lease: UTU-38419

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1209	
Birds Nest	1464	Water
Mahogany	1911	Water
Wasatch	4188	Gas
Mesaverde	6317	Gas
TVD	8489	
TD	8686	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

12/7/2011

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7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8489' TVD, approximately equals
 5,433 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,553 psi (bottom hole pressure
 minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-

(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

12/7/2011

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COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	December 7, 2011		
WELL NAME	BONANZA 1023-6I3AS					TD	8,489'	TVD	8,686' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		5223.8
SURFACE LOCATION	SWNW	2616 FNL	126 FWL	Sec 5	T 10S	R 23E			
	Latitude:	39.978063	Longitude:	-109.359674		NAD 83			
BTM HOLE LOCATION	NESE	1985 FSL	887 FEL	Sec 6	T 10S	R 23E			
	Latitude:	39.976139	Longitude:	-109.363286		NAD 83			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.								



drilling 070611- 120711.xlsx
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KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	LTC		BTC
							COLLAPSE		TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,360	28.00	IJ-55	LTC	2.29	1.70	6.01	N/A
						7,780	6,350	279,000	367,000
PRODUCTION	4-1/2"	0 to 8,686	11.60	I-80	LTC/BTC	1.11	1.15	3.42	4.50

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi)

0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2							
	LEAD	1,860'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	170	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,686'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	280	20%	11.00	3.38
	TAIL	5,000'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,180	35%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

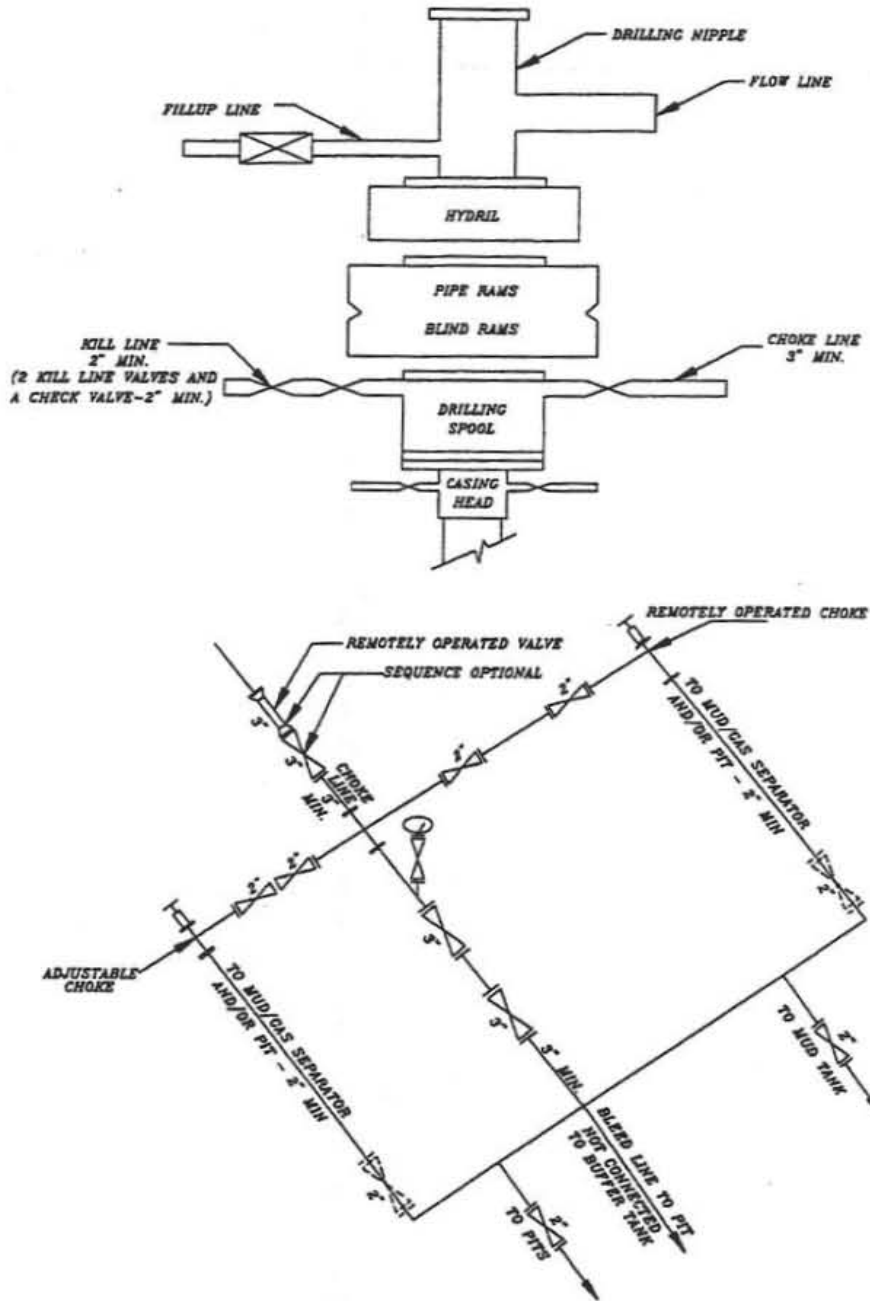
Nick Spence / Danny Showers

DATE:**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE:

EXHIBIT A BONANZA 1023-6I3AS



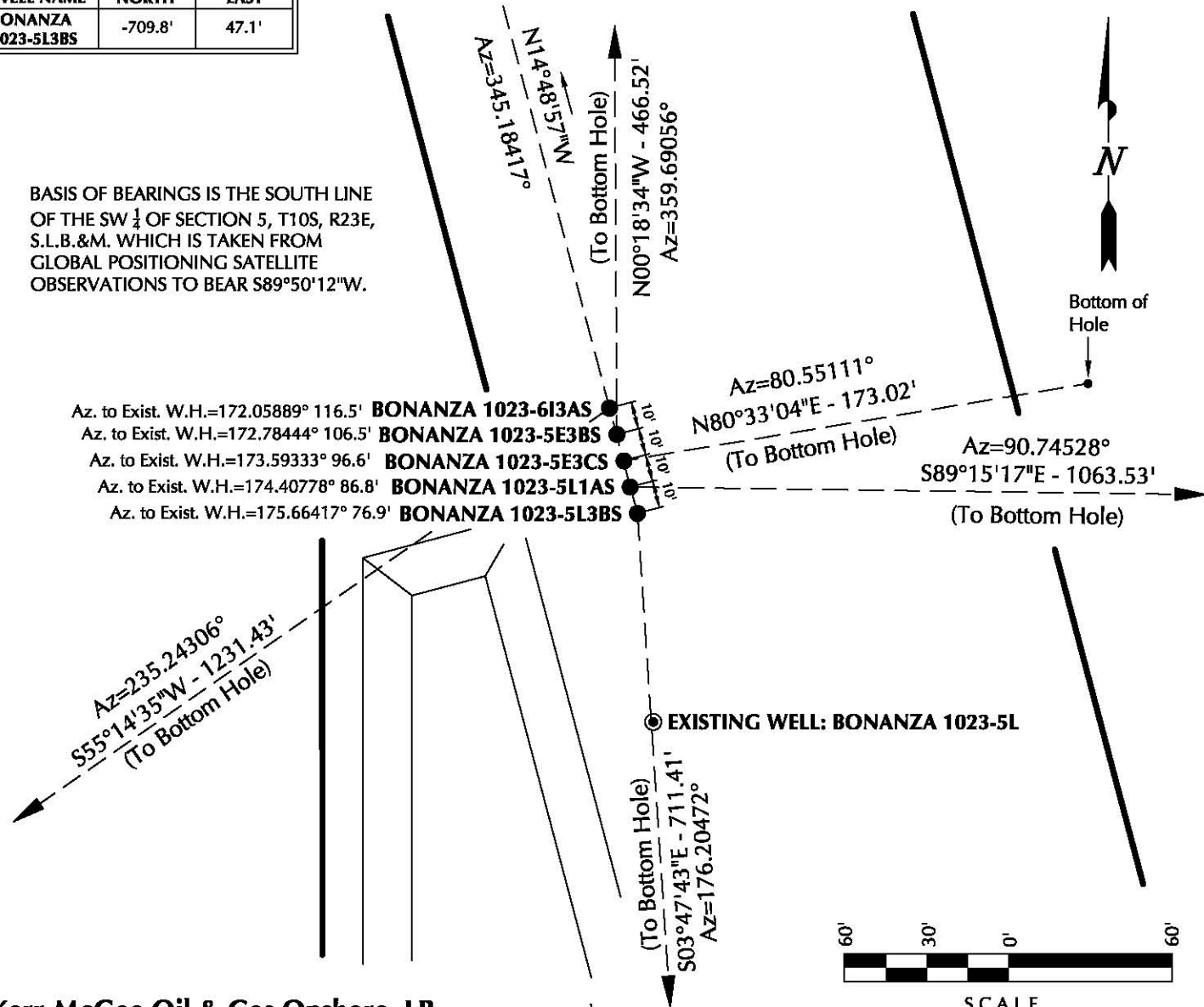
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
BONANZA 1023-6I3AS	39°58'41.026"	109°21'34.825"	39°58'41.149"	109°21'32.379"	2616' FNL 126' FWL	39°58'34.101"	109°21'47.828"	39°58'34.224"	109°21'45.382"	1985' FSL 887' FEL
BONANZA 1023-5E3BS	39°58'40.930"	109°21'34.791"	39°58'41.053"	109°21'32.345"	2625' FNL 129' FWL	39°58'45.539"	109°21'34.816"	39°58'45.662"	109°21'32.370"	2159' FNL 127' FWL
BONANZA 1023-5E3CS	39°58'40.835"	109°21'34.757"	39°58'40.958"	109°21'32.312"	2635' FNL 131' FWL	39°58'41.113"	109°21'32.565"	39°58'41.236"	109°21'30.120"	2607' FNL 302' FWL
BONANZA 1023-5L1AS	39°58'40.740"	109°21'34.728"	39°58'40.862"	109°21'32.282"	2645' FNL 134' FWL	39°58'40.590"	109°21'21.071"	39°58'40.713"	109°21'18.626"	2639' FSL 1197' FWL
BONANZA 1023-5L3BS	39°58'40.644"	109°21'34.694"	39°58'40.767"	109°21'32.248"	2654' FNL 136' FWL	39°58'33.630"	109°21'34.100"	39°58'33.753"	109°21'31.654"	1936' FSL 182' FWL
BONANZA 1023-5L	39°58'39.886"	109°21'34.620"	39°58'40.009"	109°21'32.175"	2569' FSL 142' FWL	39°58'33.630"	109°21'34.100"	39°58'33.753"	109°21'31.654"	1936' FSL 182' FWL

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
BONANZA 1023-6I3AS	-702.0'	-1011.7'	BONANZA 1023-5E3BS	466.5'	-2.5'	BONANZA 1023-5E3CS	28.4'	170.7'	BONANZA 1023-5L1AS	-13.8'	1,063.4'
BONANZA 1023-5L3BS	-709.8'	47.1'									

BASIS OF BEARINGS IS THE SOUTH LINE OF THE SW $\frac{1}{4}$ OF SECTION 5, T10S, R23E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR S89°50'12"W.



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-5L

WELL PAD INTERFERENCE PLAT
WELLS - BONANZA 1023-6I3AS,
BONANZA 1023-5E3BS, BONANZA 1023-5E3CS,
BONANZA 1023-5L1AS & BONANZA 1023-5L3BS
LOCATED IN SECTION 5, T10S, R23E,
S.L.B.&M., UTAH COUNTY, UTAH.



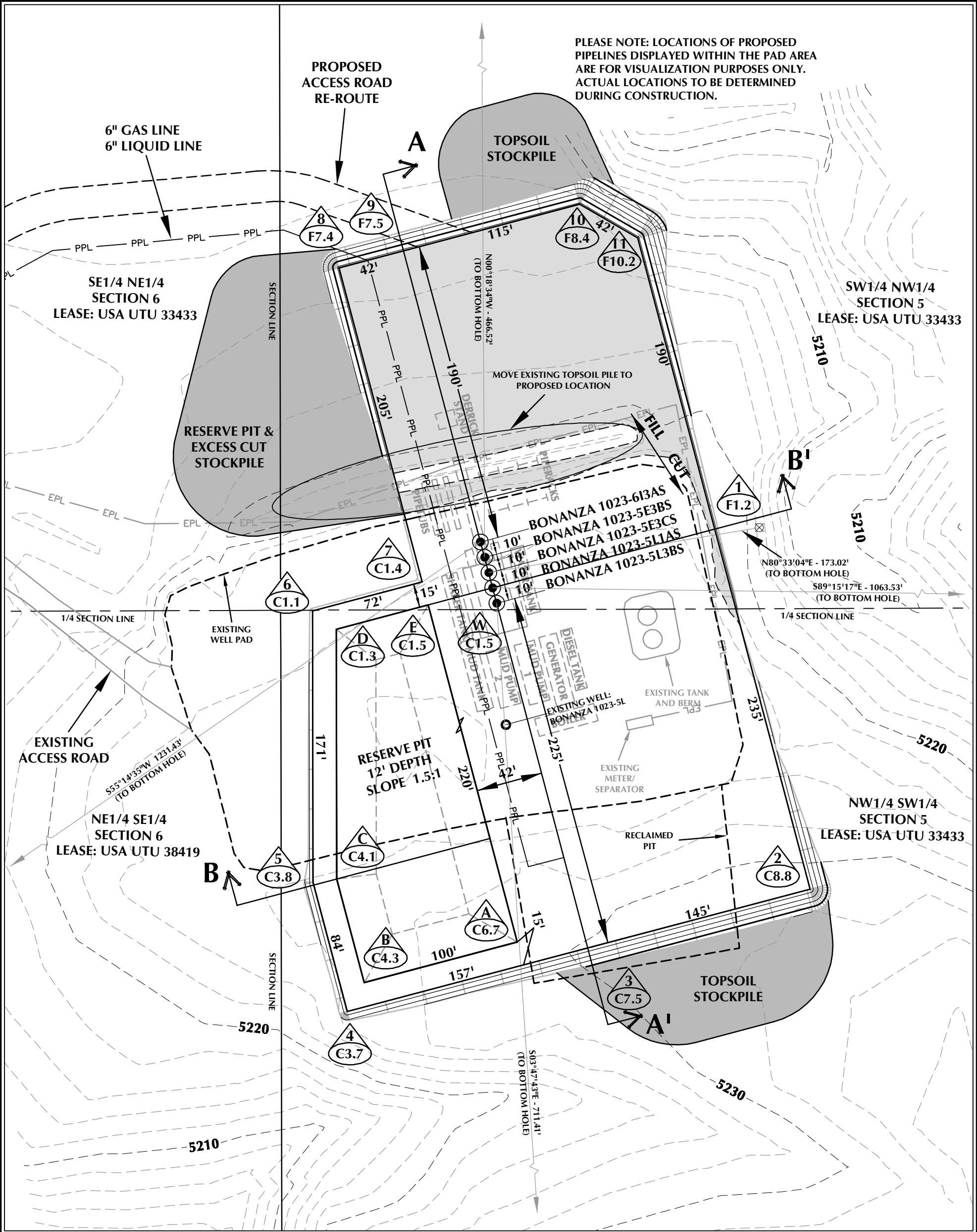
609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-11-10	SURVEYED BY: D.J.S.	SHEET NO: 6 6 OF 17
DATE DRAWN: 03-13-10	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised: 11-07-11 T.J.R.	



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - BONANZA 1023-5L DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5224.1'
FINISHED GRADE ELEVATION = 5222.6'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 2.77 ACRES
TOTAL DAMAGE AREA = 5.13 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-5L

WELL PAD - LOCATION LAYOUT
BONANZA 1023-6I3AS,
BONANZA 1023-5E3BS, BONANZA 1023-5E3CS,
BONANZA 1023-5L1AS & BONANZA 1023-5L3BS
LOCATED IN SECTION 5, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 8,268 C.Y.
TOTAL FILL FOR WELL PAD = 6,895 C.Y.
TOPSOIL @ 6" DEPTH = 1,312 C.Y.
EXCESS MATERIAL = 1,373 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 6,190 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 23,340 BARRELS

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ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

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WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE

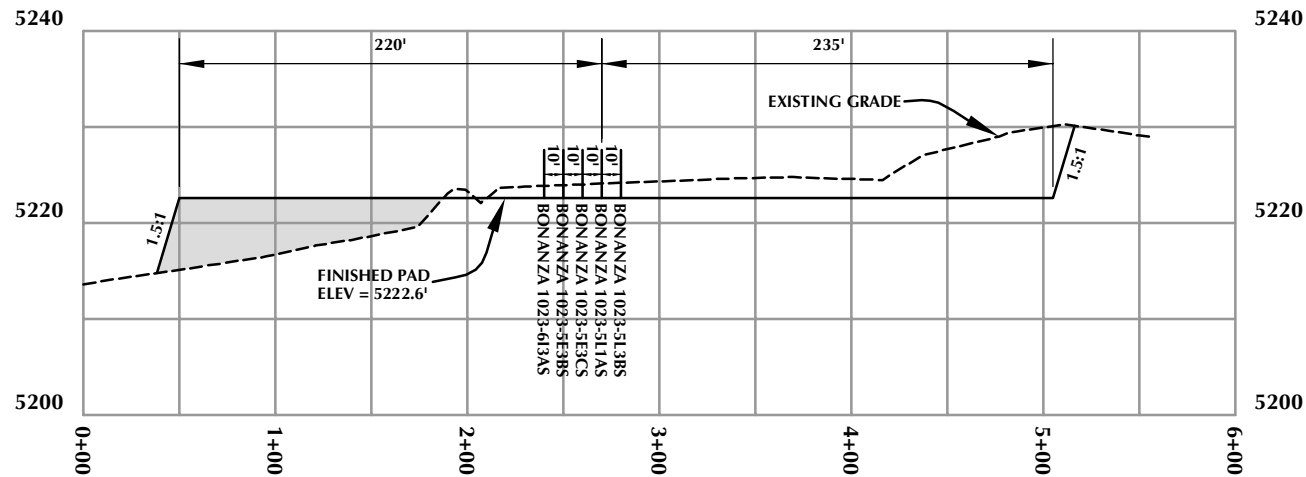
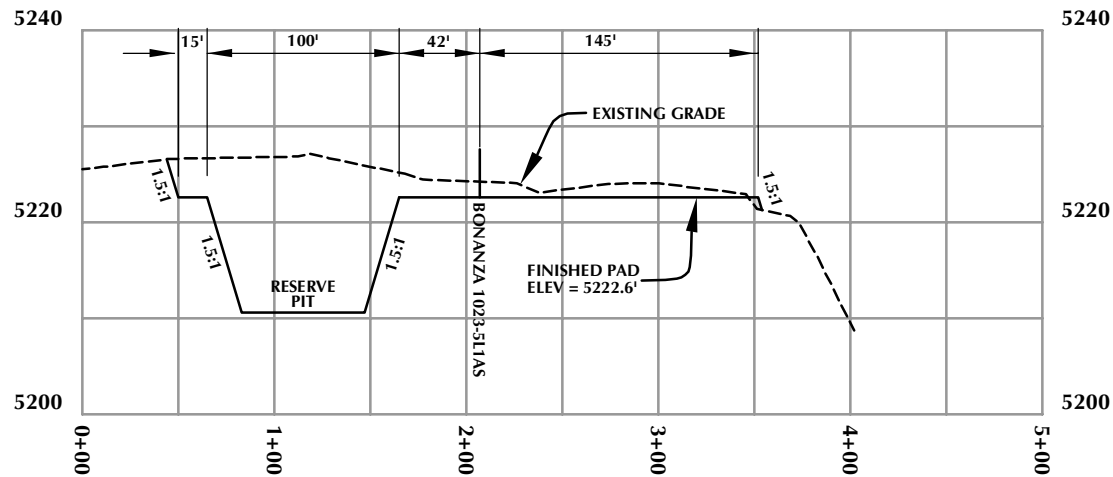


HORIZONTAL 0 30 60 1" = 60'

2' CONTOURS

Scale: 1"=60' Date: 3/30/10 SHEET NO:

REVISED: 11/11/11 GRB 7 7 OF 17

**CROSS SECTION A-A'****CROSS SECTION B-B'**

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-5L

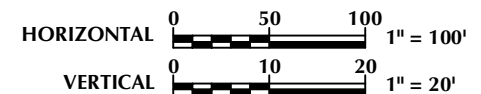
WELL PAD - CROSS SECTIONS
BONANZA 1023-6I3AS,
BONANZA 1023-5E3BS, BONANZA 1023-5E3CS,
BONANZA 1023-5L1AS & BONANZA 1023-5L3BS
LOCATED IN SECTION 5, T10S, R23E,
S.L.B.&M., UINTAH COUNTY, UTAH



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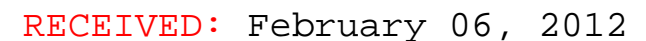
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Scale: 1"=100'	Date: 3/30/10	SHEET NO:
REVISED:	GRB 11/11/11	8 8 OF 17

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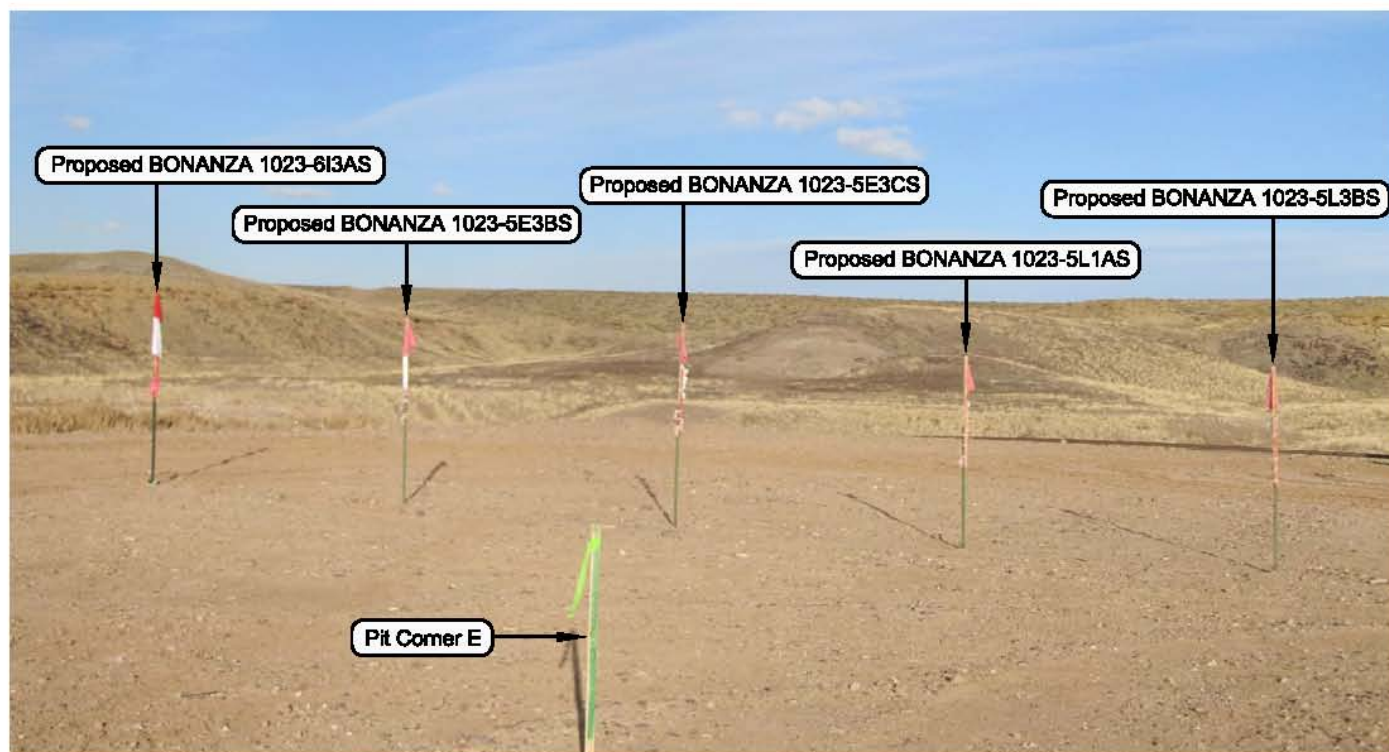


PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - BONANZA 1023-5L

LOCATION PHOTOS
BONANZA 1023-6I3AS,
BONANZA 1023-5E3BS, BONANZA 1023-5E3CS,
BONANZA 1023-5L1AS & BONANZA 1023-5L3BS
LOCATED IN SECTION 5, T10S, R23E,
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03-11-10

PHOTOS TAKEN BY: D.J.S.

SHEET NO:

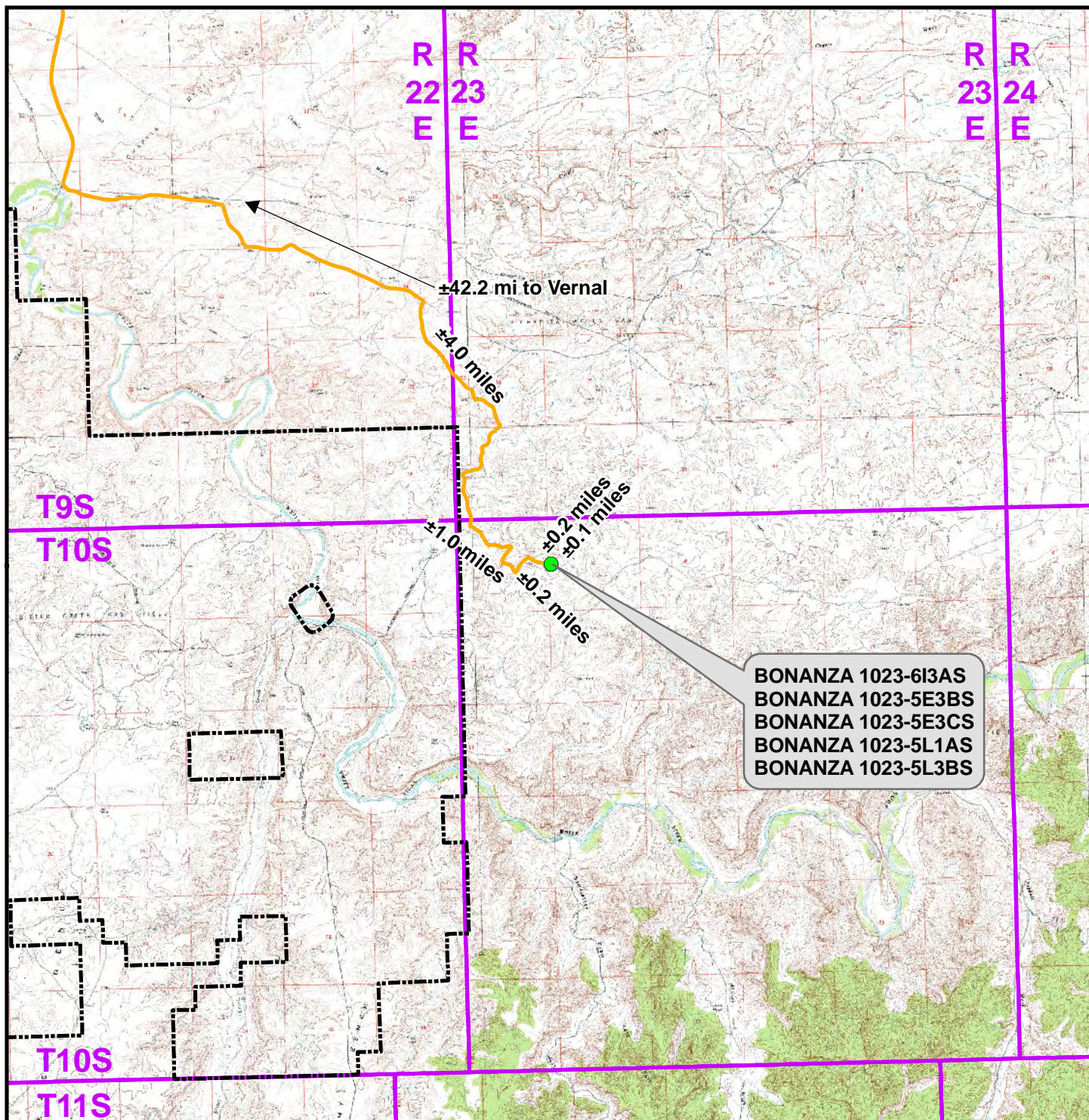
DATE DRAWN:
03-13-10

DRAWN BY: E.M.S.

10

Date Last Revised: 11-08-11 T.J.R.

10 OF 17

**Legend**

- Proposed Well Location Natural Buttes Unit Boundary
— Access Route - Proposed

Distance From Well Pad - BONANZA 1023-5L To Unit Boundary: ±5,365ft

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5L

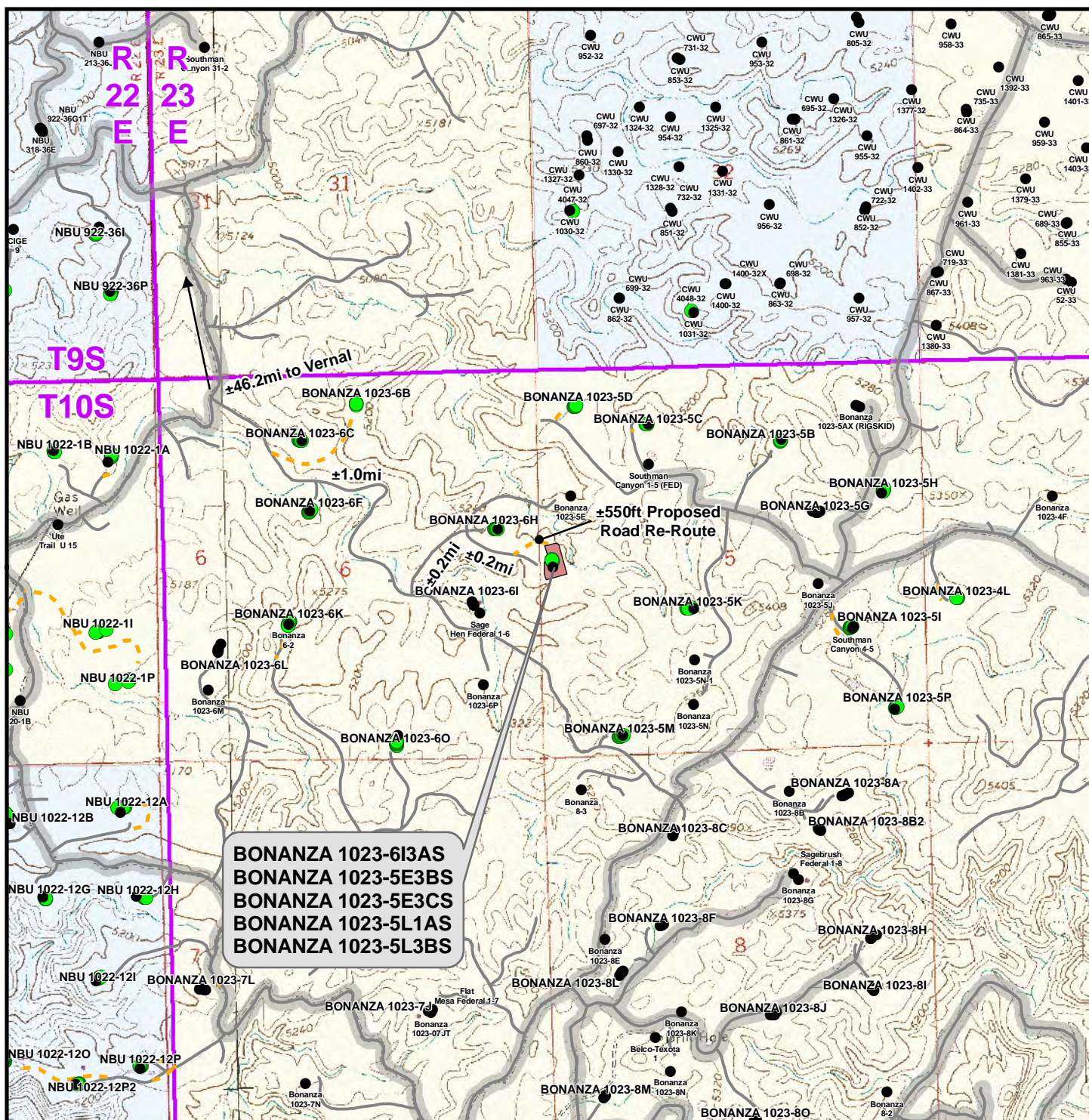
TOPO A
BONANZA 1023-6I3AS,
BONANZA 1023-5E3BS, BONANZA 1023-5E3CS,
BONANZA 1023-5L1AS & BONANZA 1023-5L3BS
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1:100,000	NAD83 USP Central
Drawn: CPS	Date: 30 Mar 2010
Revised: CPS	Date: 14 Nov 2011

Sheet No:

11 11 of 17



Legend

- Well - Proposed
- Well Pad
- Road - Proposed
- County Road
- Bureau of Land Management
- State
- Well - Existing
- Road - Existing
- Indian Reservation
- Private

Total Proposed Road Re-Route Length: ±550ft

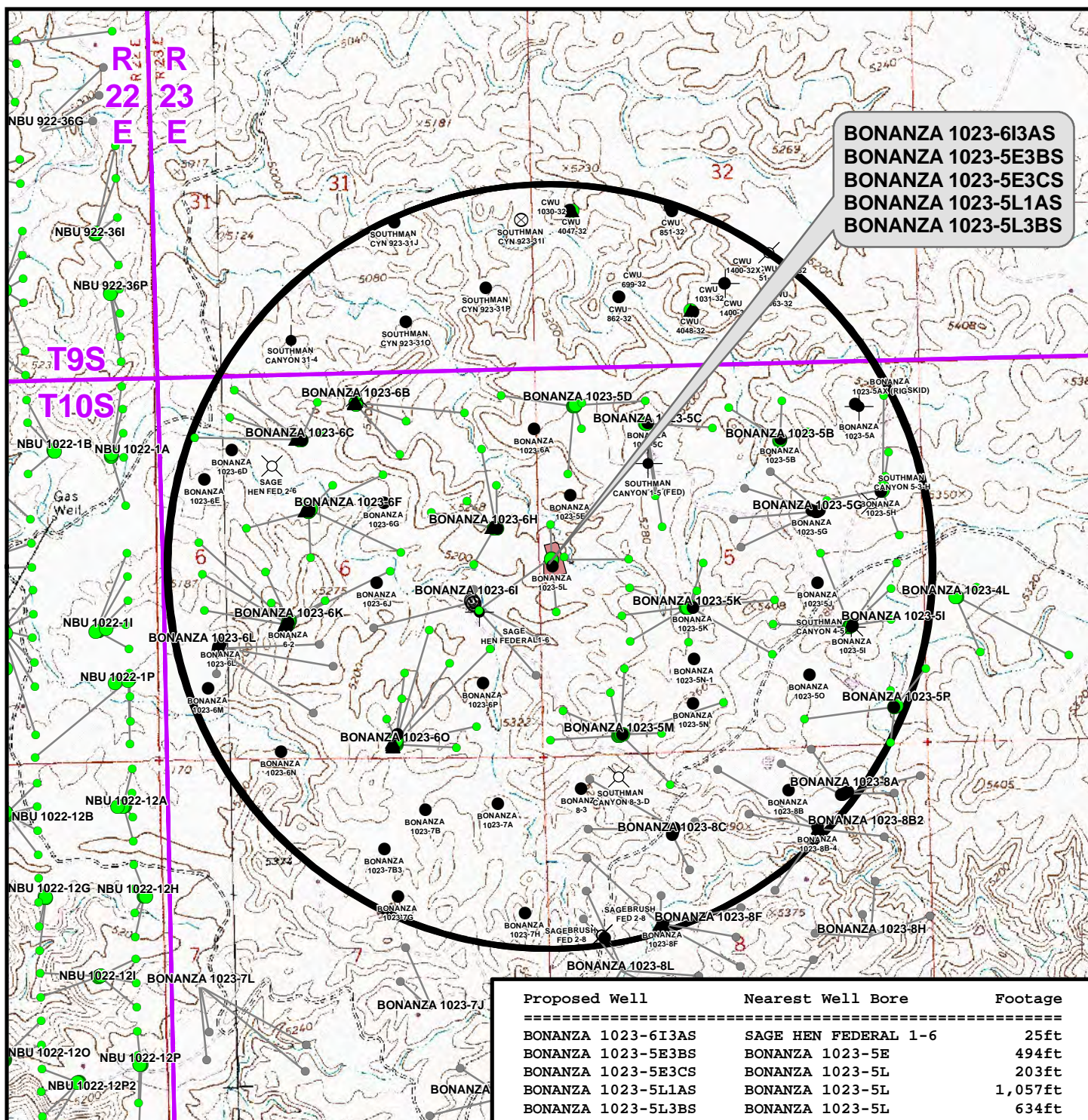
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5L

TOPO B
BONANZA 1023-6I3AS,
BONANZA 1023-5E3BS, BONANZA 1023-5E3CS,
BONANZA 1023-5L1AS & BONANZA 1023-5L3BS
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft | NAD83 USP Central | Sheet No:
 Drawn: CPS | Date: 30 Mar 2010 | **12**
 Revised: CPS | Date: 14 Nov 2011 | 12 of 17

**Legend**

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Well - Proposed
- Bottom Hole - Proposed
- Well Pad
- Well Path
- Bottom Hole - Existing
- Well - 1 Mile Radius
- Producing
- ★ Active
- ☺ Spudded (Drilling commenced; Not yet completed)
- ▲ Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- ⊕ Inactive
- ⊗ Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- ⊗ Location Abandoned
- ⊗ Dry hole marker, buried
- ⊗ Returned APD (Unapproved)

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5L

TOPO C
BONANZA 1023-6I3AS,
BONANZA 1023-5E3BS, BONANZA 1023-5E3CS,
BONANZA 1023-5L1AS & BONANZA 1023-5L3BS
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH

609
CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1" = 2,000ft | NAD83 USP Central
 Drawn: CPS | Date: 30 Mar 2010
 Revised: CPS | Date: 14 Nov 2011

Sheet No:
13 13 of 17

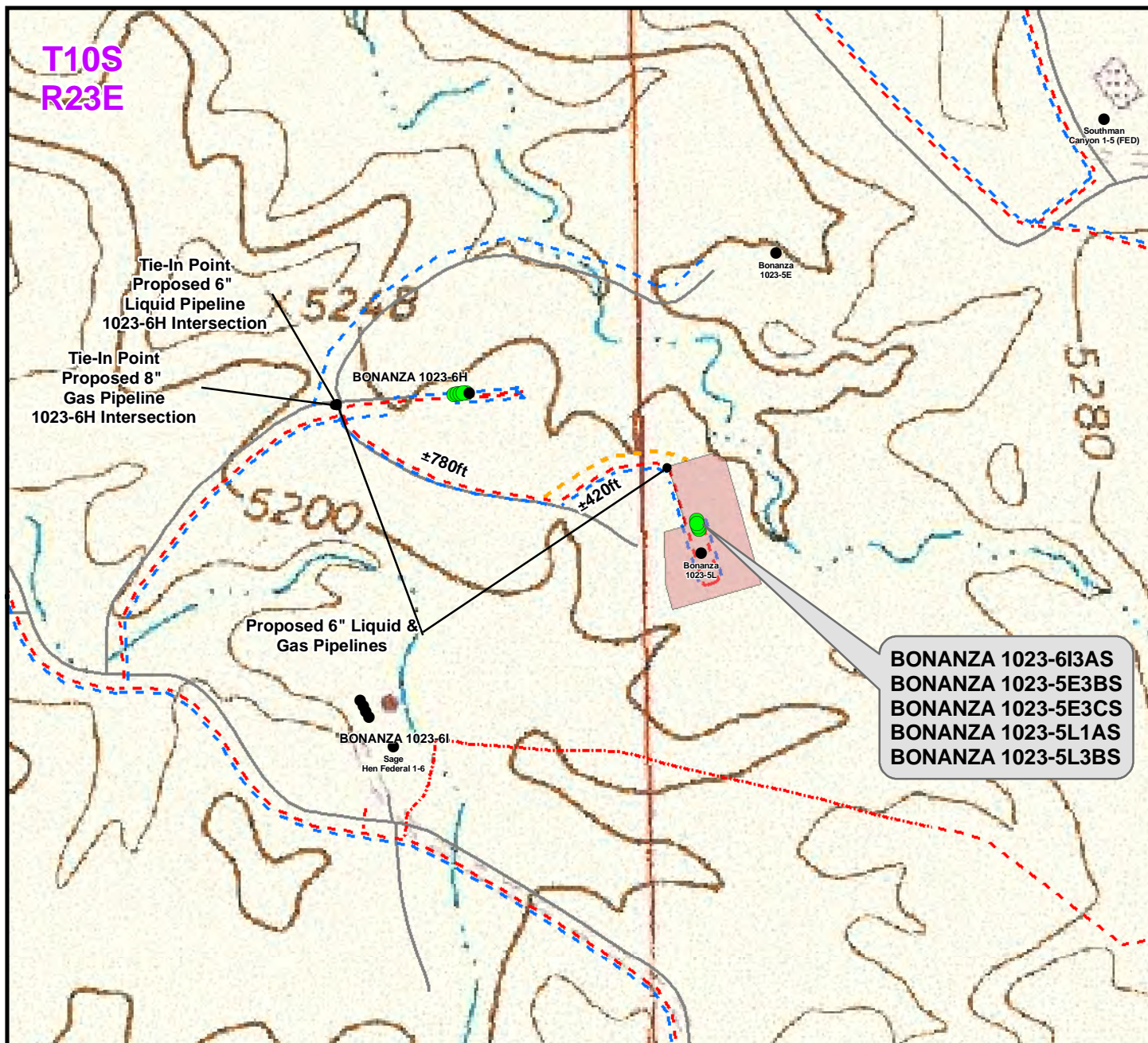
Proposed Gas Pipeline	Length
=====	=====
Proposed 6" (First Meter House to Edge of Pad)	±460ft
Proposed 6" (Edge of Pad to 6H Intersection)	±1,200ft
 TOTAL PROPOSED GAS PIPELINE =	 ±1,660ft

● Well - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed Bureau of Land Management
● Well - Existing Gas Pipeline - To Be Upgraded Liquid Pipeline - To Be Upgraded — Road - Existing Indian Reservation
 Well Pad — Gas Pipeline - Existing — Liquid Pipeline - Existing State
 Private



609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 30 Mar 2010	14
Revised: CPS	Date: 14 Nov 2011	



Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±460ft
Proposed 6" (Edge of Pad to 6H Intersection)	±1,200ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,660ft

Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±460ft
Proposed 6" (Edge of Pad to 6H Intersection)	±1,200ft
TOTAL PROPOSED GAS PIPELINE =	±1,660ft

Legend

● Well - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	Bureau of Land Management
● Well - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - To Be Upgraded	- - - Road - Existing	Indian Reservation
Well Pad	- - - Gas Pipeline - Existing	- - - Liquid Pipeline - Existing		State
				Private

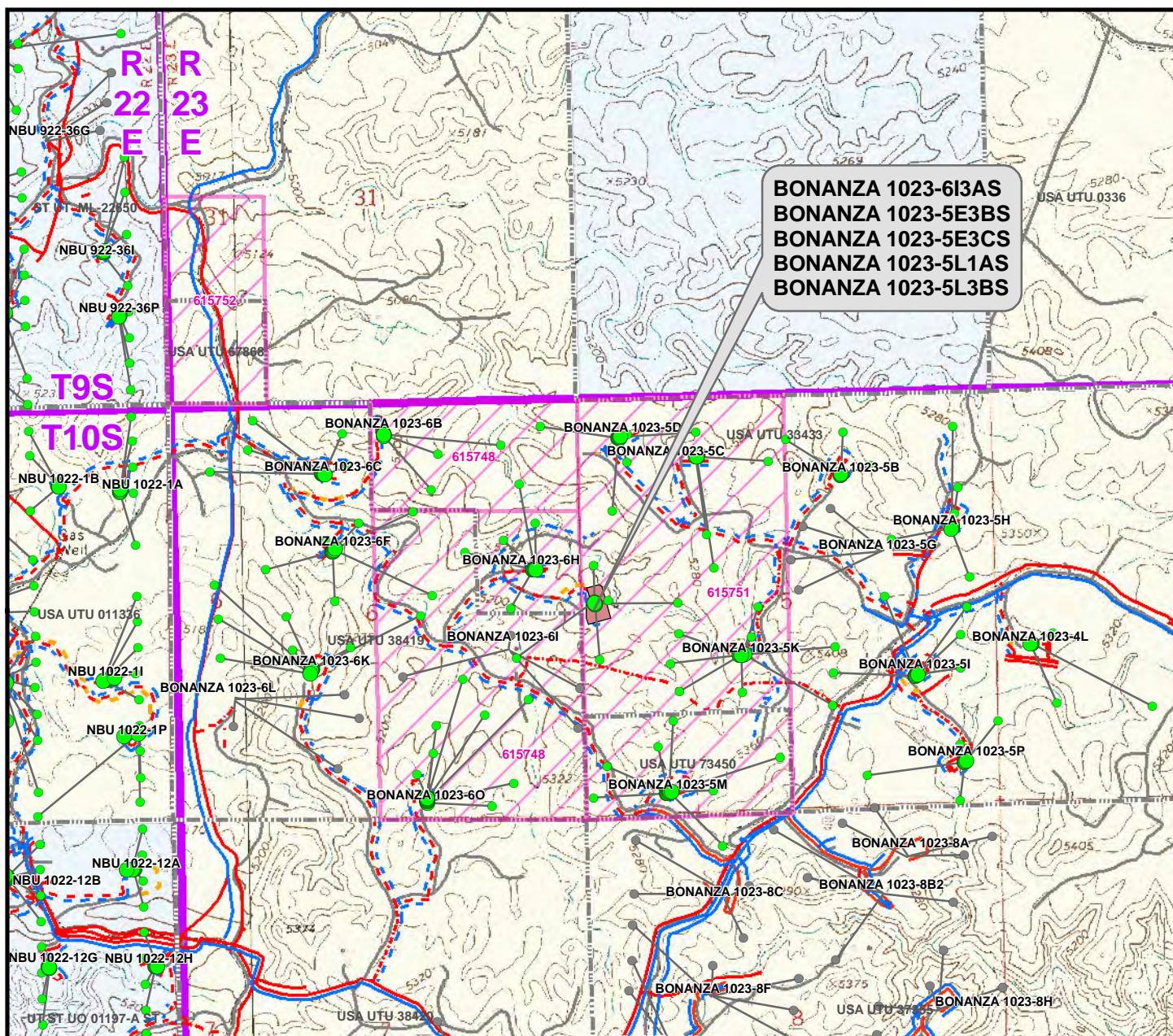
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5L

TOPO D (PAD & PIPELINE DETAIL)
**BONANZA 1023-6I3AS,
BONANZA 1023-5E3BS, BONANZA 1023-5E3CS,
BONANZA 1023-5L1AS & BONANZA 1023-5L3BS**
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 30 Mar 2010	15
Revised: CPS	Date: 14 Nov 2011	15 of 17



Proposed Well	Distance To Nearest CA Boundary
BONANZA 1023-6I3AS	887ft
BONANZA 1023-5E3BS	127ft
BONANZA 1023-5E3CS	302ft
BONANZA 1023-5L1AS	1,197ft
BONANZA 1023-5L3BS	182ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-6I3AS	570ft
BONANZA 1023-5E3BS	515ft
BONANZA 1023-5E3CS	306ft
BONANZA 1023-5L1AS	1,197ft
BONANZA 1023-5L3BS	182ft

Legend

Well - Proposed	Well Pad	Gas Pipeline - Proposed	Liquid Pipeline - Proposed	Road - Proposed	Bureau of Land Management
Well Path	CA Agreement	Gas Pipeline - To Be Upgraded	Liquid Pipeline - To Be Upgraded	Road - Existing	Indian Reservation
	Lease Boundary	Gas Pipeline - Existing	Liquid Pipeline - Existing		State
					Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - BONANZA 1023-5L

TOPO E
BONANZA 1023-6I3AS,
BONANZA 1023-5E3BS, BONANZA 1023-5E3CS,
BONANZA 1023-5L1AS & BONANZA 1023-5L3BS
LOCATED IN SECTION 5, T10S, R23E
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 30 Mar 2010	16 16 of 17
Revised: CPS	Date: 14 Nov 2011	

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – BONANZA 1023-5L
WELLS – BONANZA 1023-6I3AS,
BONANZA 1023-5E3BS, BONANZA 1023-5E3CS,
BONANZA 1023-5L1AS & BONANZA 1023-5L3BS
Section 5, T10S, R23E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Chipeta Wells Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge, at the White River. Exit left and proceed in a southeasterly direction along the Chipeta Wells Road approximately 4.3 miles to the intersection of the Atchee Wash Road (County B Road 4240). Exit right and proceed in a southeasterly, then southerly direction along the Atchee Wash Road approximately 4.0 miles to a service road to the left. Exit left and proceed in a southeasterly direction along the service road approximately 1.0 miles to a second service road to the left. Exit left and proceed in a northeasterly direction along the second service road approximately 0.2 miles to a third service road to the right. Exit right and proceed in a southeasterly direction along the third service road approximately 0.2 miles to the proposed access road to the northeast. Exit left and follow road flags in a northeasterly direction approximately 550 feet to the proposed well location.

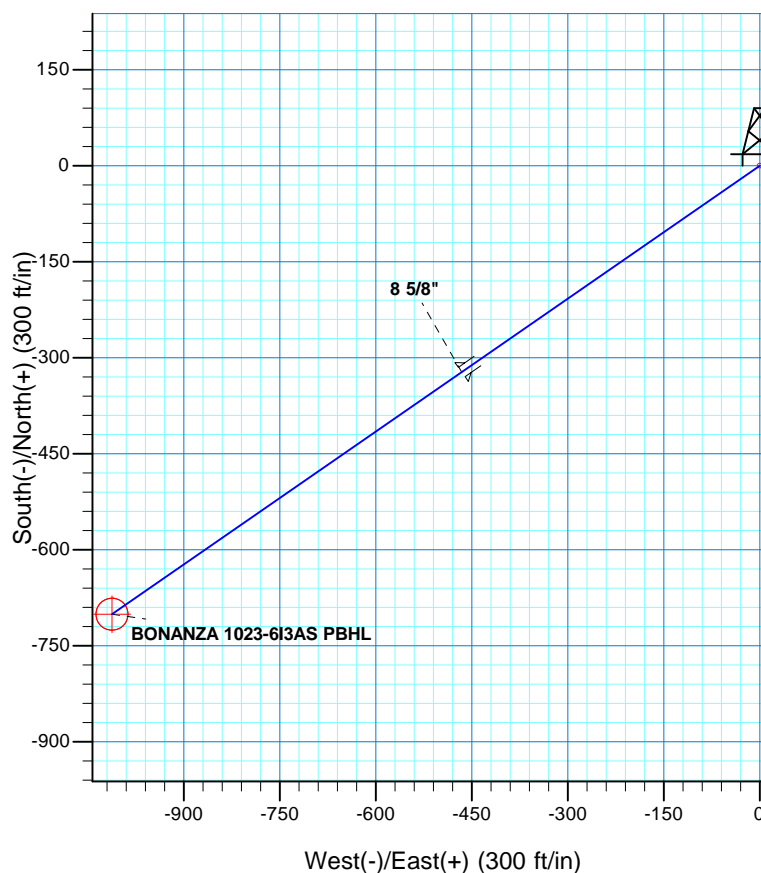
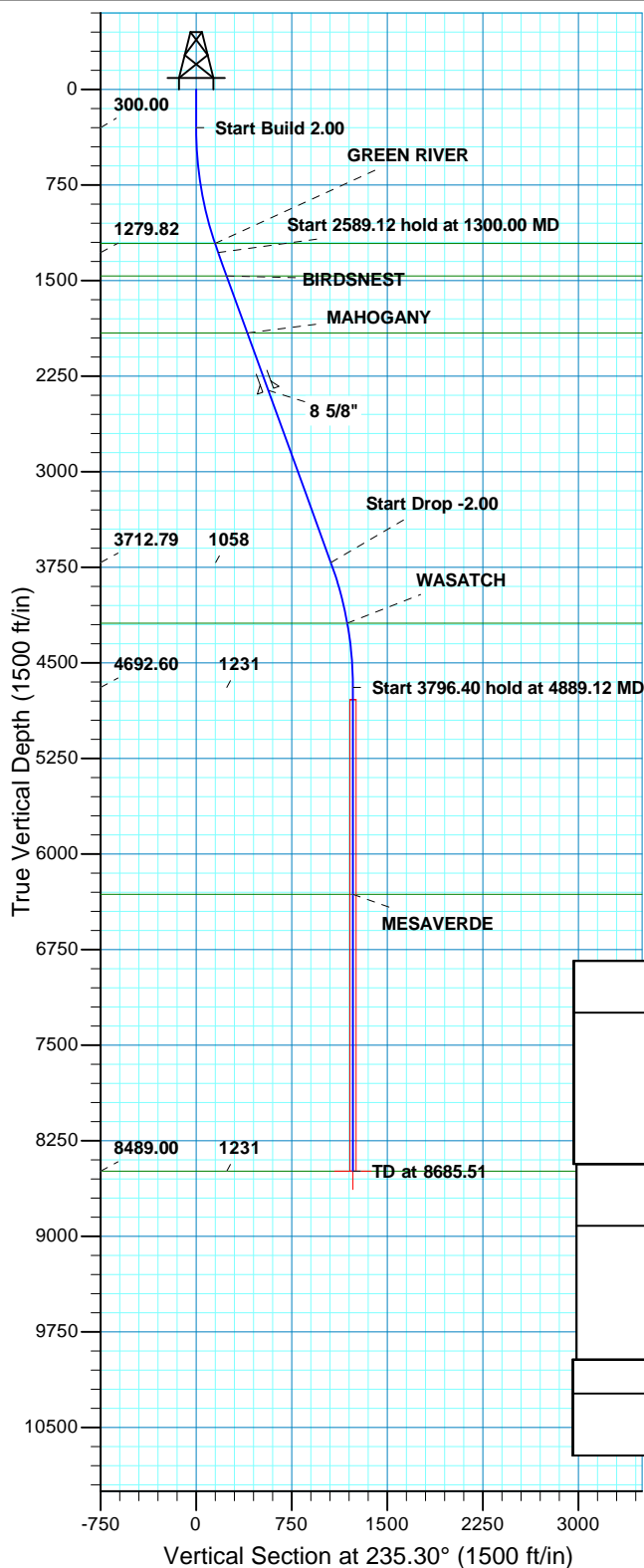
Total distance from Vernal, Utah to the proposed well location is approximately 47.7 miles in a southerly direction.

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8489.00	-700.74	-1012.17	14521580.10	2099152.83	39° 58' 34.223 N	109° 21' 45.382 W	Circle (Radius: 25.00)



Azimuths to True North
Magnetic North: 10.95°

Magnetic Field
Strength: 52286.9snT
Dip Angle: 65.86°
Date: 2011/12/07
Model: IGRF2010



SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
1300.00	20.00	235.30	1279.82	-98.34	-142.05	2.00	235.30	172.77
3889.12	20.00	235.30	3712.79	-602.40	-870.12	0.00	0.00	1058.30
4889.12	0.00	0.00	4692.60	-700.74	-1012.17	2.00	180.00	1231.07
6885.51	0.00	0.00	8489.00	-700.74	-1012.17	0.00	0.00	1231.07

BONANZA 1023-613AS PBHL

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SEC 5 T10S R23E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1209.00	1224.99	GREEN RIVER
1464.00	1496.01	BIRDSNEST
1911.00	1971.69	MAHOGANY
4188.00	4381.87	WASATCH
6317.00	6513.51	MESAVERDE
8489.00	8685.51	SEGO

CASING DETAILS

TVD	MD	Name	Size
2361.00	2450.57	8 5/8"	8.625

Plan: PLAN #2 PRELIMINARY (BONANZA 1023-6I3AS/OH)

Created By: RobertScott Date: 16:08, December 07 2011

RECEIVED:



Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

Bonanza 1023-5L PAD

BONANZA 1023-6I3AS

OH

Plan: PLAN #2 PRELIMINARY

Standard Planning Report

07 December, 2011





SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I3AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5223 & KB 4 @ 5227.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5223 & KB 4 @ 5227.00ft (ASSUMED)
Site:	Bonanza 1023-5L PAD	North Reference:	True
Well:	BONANZA 1023-6I3AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	Bonanza 1023-5L PAD, SEC 5 T10S R23E			
Site Position:		Northing:	14,522,260.93 usft	Latitude: 39° 58' 40.768 N
From:	Lat/Long	Easting:	2,100,162.72 usft	Longitude: 109° 21' 32.249 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 1.05 °

Well	BONANZA 1023-6I3AS, 1985 FSL 887 FEL			
Well Position	+N/-S	38.61 ft	Northing:	14,522,299.35 usft
	+E/-W	-10.09 ft	Easting:	2,100,151.92 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:		Ground Level: 5,223.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/12/07	10.95	65.86	52,287

Design	PLAN #2 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	235.30

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	235.30	1,279.82	-98.34	-142.05	2.00	2.00	0.00	235.30	
3,889.12	20.00	235.30	3,712.79	-602.40	-870.12	0.00	0.00	0.00	0.00	
4,889.12	0.00	0.00	4,692.60	-700.74	-1,012.17	2.00	-2.00	0.00	180.00	
8,685.51	0.00	0.00	8,489.00	-700.74	-1,012.17	0.00	0.00	0.00	0.00	BONANZA 1023-6I3A



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I3AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5223 & KB 4 @ 5227.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5223 & KB 4 @ 5227.00ft (ASSUMED)
Site:	Bonanza 1023-5L PAD	North Reference:	True
Well:	BONANZA 1023-6I3AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	235.30	399.98	-0.99	-1.43	1.75	2.00	2.00	0.00
500.00	4.00	235.30	499.84	-3.97	-5.74	6.98	2.00	2.00	0.00
600.00	6.00	235.30	599.45	-8.93	-12.90	15.69	2.00	2.00	0.00
700.00	8.00	235.30	698.70	-15.87	-22.92	27.88	2.00	2.00	0.00
800.00	10.00	235.30	797.47	-24.77	-35.78	43.52	2.00	2.00	0.00
900.00	12.00	235.30	895.62	-35.63	-51.47	62.60	2.00	2.00	0.00
1,000.00	14.00	235.30	993.06	-48.44	-69.97	85.10	2.00	2.00	0.00
1,100.00	16.00	235.30	1,089.64	-63.17	-91.24	110.98	2.00	2.00	0.00
1,200.00	18.00	235.30	1,185.27	-79.81	-115.28	140.21	2.00	2.00	0.00
1,224.99	18.50	235.30	1,209.00	-84.27	-121.72	148.04	2.00	2.00	0.00
GREEN RIVER									
1,300.00	20.00	235.30	1,279.82	-98.34	-142.05	172.77	2.00	2.00	0.00
Start 2589.12 hold at 1300.00 MD									
1,400.00	20.00	235.30	1,373.78	-117.81	-170.17	206.97	0.00	0.00	0.00
1,496.01	20.00	235.30	1,464.00	-136.50	-197.17	239.81	0.00	0.00	0.00
BIRDSNEST									
1,500.00	20.00	235.30	1,467.75	-137.28	-198.29	241.17	0.00	0.00	0.00
1,600.00	20.00	235.30	1,561.72	-156.75	-226.41	275.37	0.00	0.00	0.00
1,700.00	20.00	235.30	1,655.69	-176.21	-254.53	309.58	0.00	0.00	0.00
1,800.00	20.00	235.30	1,749.66	-195.68	-282.65	343.78	0.00	0.00	0.00
1,900.00	20.00	235.30	1,843.63	-215.15	-310.77	377.98	0.00	0.00	0.00
1,971.69	20.00	235.30	1,911.00	-229.11	-330.93	402.50	0.00	0.00	0.00
MAHOGANY									
2,000.00	20.00	235.30	1,937.60	-234.62	-338.89	412.18	0.00	0.00	0.00
2,100.00	20.00	235.30	2,031.57	-254.09	-367.01	446.38	0.00	0.00	0.00
2,200.00	20.00	235.30	2,125.54	-273.56	-395.13	480.59	0.00	0.00	0.00
2,300.00	20.00	235.30	2,219.51	-293.02	-423.25	514.79	0.00	0.00	0.00
2,400.00	20.00	235.30	2,313.48	-312.49	-451.37	548.99	0.00	0.00	0.00
2,450.57	20.00	235.30	2,361.00	-322.34	-465.60	566.29	0.00	0.00	0.00
8 5/8"									
2,500.00	20.00	235.30	2,407.45	-331.96	-479.49	583.19	0.00	0.00	0.00
2,600.00	20.00	235.30	2,501.42	-351.43	-507.62	617.39	0.00	0.00	0.00
2,700.00	20.00	235.30	2,595.39	-370.90	-535.74	651.60	0.00	0.00	0.00
2,800.00	20.00	235.30	2,689.35	-390.37	-563.86	685.80	0.00	0.00	0.00
2,900.00	20.00	235.30	2,783.32	-409.83	-591.98	720.00	0.00	0.00	0.00
3,000.00	20.00	235.30	2,877.29	-429.30	-620.10	754.20	0.00	0.00	0.00
3,100.00	20.00	235.30	2,971.26	-448.77	-648.22	788.40	0.00	0.00	0.00
3,200.00	20.00	235.30	3,065.23	-468.24	-676.34	822.61	0.00	0.00	0.00
3,300.00	20.00	235.30	3,159.20	-487.71	-704.46	856.81	0.00	0.00	0.00
3,400.00	20.00	235.30	3,253.17	-507.18	-732.58	891.01	0.00	0.00	0.00
3,500.00	20.00	235.30	3,347.14	-526.64	-760.70	925.21	0.00	0.00	0.00
3,600.00	20.00	235.30	3,441.11	-546.11	-788.82	959.41	0.00	0.00	0.00
3,700.00	20.00	235.30	3,535.08	-565.58	-816.94	993.62	0.00	0.00	0.00
3,800.00	20.00	235.30	3,629.05	-585.05	-845.06	1,027.82	0.00	0.00	0.00
3,889.12	20.00	235.30	3,712.79	-602.40	-870.12	1,058.30	0.00	0.00	0.00
Start Drop -2.00									
3,900.00	19.78	235.30	3,723.02	-604.51	-873.17	1,062.00	2.00	-2.00	0.00
4,000.00	17.78	235.30	3,817.69	-622.83	-899.64	1,094.20	2.00	-2.00	0.00



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I3AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5223 & KB 4 @ 5227.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5223 & KB 4 @ 5227.00ft (ASSUMED)
Site:	Bonanza 1023-5L PAD	North Reference:	True
Well:	BONANZA 1023-6I3AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,100.00	15.78	235.30	3,913.43	-639.27	-923.38	1,123.07	2.00	-2.00	0.00
4,200.00	13.78	235.30	4,010.11	-653.79	-944.35	1,148.58	2.00	-2.00	0.00
4,300.00	11.78	235.30	4,107.63	-666.38	-962.54	1,170.71	2.00	-2.00	0.00
4,381.87	10.15	235.30	4,188.00	-675.24	-975.34	1,186.27	2.00	-2.00	0.00
WASATCH									
4,400.00	9.78	235.30	4,205.86	-677.03	-977.92	1,189.41	2.00	-2.00	0.00
4,500.00	7.78	235.30	4,304.68	-685.72	-990.48	1,204.68	2.00	-2.00	0.00
4,600.00	5.78	235.30	4,403.98	-692.44	-1,000.18	1,216.49	2.00	-2.00	0.00
4,700.00	3.78	235.30	4,503.63	-697.19	-1,007.04	1,224.83	2.00	-2.00	0.00
4,800.00	1.78	235.30	4,603.50	-699.95	-1,011.03	1,229.68	2.00	-2.00	0.00
4,889.12	0.00	0.00	4,692.60	-700.74	-1,012.17	1,231.07	2.00	-2.00	139.93
Start 3796.40 hold at 4889.12 MD									
4,900.00	0.00	0.00	4,703.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
5,000.00	0.00	0.00	4,803.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
5,100.00	0.00	0.00	4,903.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
5,200.00	0.00	0.00	5,003.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
5,300.00	0.00	0.00	5,103.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
5,400.00	0.00	0.00	5,203.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
5,500.00	0.00	0.00	5,303.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
5,600.00	0.00	0.00	5,403.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
5,700.00	0.00	0.00	5,503.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
5,800.00	0.00	0.00	5,603.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
5,900.00	0.00	0.00	5,703.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
6,000.00	0.00	0.00	5,803.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
6,100.00	0.00	0.00	5,903.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
6,200.00	0.00	0.00	6,003.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
6,300.00	0.00	0.00	6,103.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
6,400.00	0.00	0.00	6,203.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
6,500.00	0.00	0.00	6,303.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
6,513.51	0.00	0.00	6,317.00	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
MESAVERDE									
6,600.00	0.00	0.00	6,403.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
6,700.00	0.00	0.00	6,503.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
6,800.00	0.00	0.00	6,603.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
6,900.00	0.00	0.00	6,703.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
7,000.00	0.00	0.00	6,803.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
7,100.00	0.00	0.00	6,903.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
7,200.00	0.00	0.00	7,003.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
7,300.00	0.00	0.00	7,103.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
7,400.00	0.00	0.00	7,203.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
7,500.00	0.00	0.00	7,303.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
7,600.00	0.00	0.00	7,403.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
7,700.00	0.00	0.00	7,503.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
7,800.00	0.00	0.00	7,603.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
7,900.00	0.00	0.00	7,703.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
8,000.00	0.00	0.00	7,803.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
8,100.00	0.00	0.00	7,903.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
8,200.00	0.00	0.00	8,003.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
8,300.00	0.00	0.00	8,103.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
8,400.00	0.00	0.00	8,203.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
8,500.00	0.00	0.00	8,303.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
8,600.00	0.00	0.00	8,403.49	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00
8,685.51	0.00	0.00	8,489.00	-700.74	-1,012.17	1,231.07	0.00	0.00	0.00



SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well BONANZA 1023-6I3AS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5223 & KB 4 @ 5227.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 5223 & KB 4 @ 5227.00ft (ASSUMED)
Site:	Bonanza 1023-5L PAD	North Reference:	True
Well:	BONANZA 1023-6I3AS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
TD at 8685.51 - BONANZA 1023-6I3AS PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BONANZA 1023-6I3AS	0.00	0.00	8,489.00	-700.74	-1,012.17	14,521,580.10	2,099,152.82	39° 58' 34.223 N	109° 21' 45.382 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,450.57	2,361.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,224.99	1,209.00	GREEN RIVER				
1,496.01	1,464.00	BIRDSNEST				
1,971.69	1,911.00	MAHOGANY				
4,381.87	4,188.00	WASATCH				
6,513.51	6,317.00	MESAVERDE				
8,685.51	8,489.00	SEGO				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-98.34	-142.05	Start 2589.12 hold at 1300.00 MD
3,889.12	3,712.79	-602.40	-870.12	Start Drop -2.00
4,889.12	4,692.60	-700.74	-1,012.17	Start 3796.40 hold at 4889.12 MD
8,685.51	8,489.00	-700.74	-1,012.17	TD at 8685.51

Bonanza 1023-5E3BS/ 1023-5E3CS/
1023-5L1AS/ 1023-5L3BS
/ 1023-6I3AS
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Kerr-McGee Oil & Gas Onshore. L.P.

Bonanza 1023-5L Pad

<u>API #</u>	<u>BONANZA 1023-5E3BS</u>		
	Surface: 2625 FNL / 129 FWL	SWNW	Lot
	BHL: 2159 FNL / 127 FWL	SWNW	Lot
<u>API #</u>	<u>BONANZA 1023-5E3CS</u>		
	Surface: 2635 FNL / 131 FWL	SWNW	Lot
	BHL: 2607 FNL / 302 FWL	SWNW	Lot
<u>API #</u>	<u>BONANZA 1023-5L1AS</u>		
	Surface: 2645 FNL / 134 FWL	SWNW	Lot
	BHL: 2639 FSL / 1197 FWL	NWSW	Lot
<u>API #</u>	<u>BONANZA 1023-5L3BS</u>		
	Surface: 2654 FNL / 136 FWL	SWNW	Lot
	BHL: 1936 FSL / 182 FWL	NWSW	Lot
<u>API #</u>	<u>BONANZA 1023-6I3AS</u>		
	Surface: 2616 FNL / 126 FWL	SWNW	Lot
	BHL: 1985 FSL / 887 FEL	NESE	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on May 19, 2010. Present were:

- David Gordon, NRS; Kevin Sadiler, NRS; Ryan Angus, PET Engineer; Steve Strong, Reclamation; Dan Emmett, Wildlife Biologist - BLM;
- John Slauch, Mitch Batty, Brian Venn, Jacob Dunham, Jake Edmunds, B.J. Reenders - 609 & Timberline Engineering & Land Surveying, Inc.
- Danielle Piernot and Kathy Schneebeck Dulnoan, Regulatory; Brad Burman, Completions; Clay Einerson, Construction; Grizz Oleen, Environmental; Charles Chase, Reclamation; Lovell Young, Drilling, Roger Parry and Ramey Hoopes, Construction

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

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Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

The following segments are "on-lease"

- ±780' (0.1 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, from the proposed road re-route to the 1023-6H intersection. Please refer to Topo B and Exhibit B2.
- ±310' (0.01 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, from the 1023-6H intersection to the edge of the lease line to tie-in to the ROW that is in progress for the Bonanza 1023-6H Pad. Please refer to Exhibit B2.

The following segment is a "ROW in Progress" with the Bonanza 1023-6H Pad

- ±6,080' (1.2 miles) – Section 6 T10S R23E (SW/4 NE/4) – On-lease UTU38419, traveling southeast through NE/4 of Section 5 T10S R23E on lease UTU73450. Continuing on southeasterly through the NW/4 of Section 8 T10S R23E on lease UTU37355 to tie-in to the county road intersection. Please see Exhibit B2, Lines 7, 6, 5, 4, 3, 2 and 1.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage

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features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

The following segments are "on-lease"

±550' (0.1 miles) – Section 5 T10S R23E (SW/4 NW/4) On-lease UTU33433, from the edge of pad to the proposed road re-route to tie-in to the T-intersection in the SE/4 NE/4 of Section 6. Please refer to Topo B and Exhibit B2.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the Bonanza 1023-5L, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on May 26, 2011. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

GAS GATHERING

Please refer to Exhibit B and Topo D- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is ±15,030' and the individual segments are broken up as follows:

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The following segments are "onlease", no ROW needed.

- ±460' (0.1 miles) – Section 5 T10S R23E (NW/4 SW/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the first meter house to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±1,200' (0.2 miles) – Section 5 T10S R23E (SW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to tie-in to the proposed 10" gas gathering pipeline at the 1023-6H intersection. Please refer to Topo D and Exhibit A, Line 13.
- ±340' (0.1 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 10" buried gas gathering pipeline from the 1023-6H intersection to the edge of the lease line to tie-in to the ROW that is in progress for the Bonanza 1023-6H Pad. Please refer to Exhibit A, Line 12. This pipeline will be used concurrently with the Bonanza 1023-6H Pad.

The following segment is a "ROW in Progress" with the Bonanza 1023-6H Pad

- ±13,030' (2.5 miles) – Section 6 T10S R23E (SW/4 NE/4) – On-lease UTU38419, traveling northwest through Section 6 T10S R23E up to the Section 1, T10S R22E lease boundary. Continuing on southwesterly direction through the W/2 of Section 1 T10S R22E on lease UTU011336 to state section boundary at Section 2, T10S R22E. Please see Exhibit A1, Lines 7, 8, 9 and 10.

The remaining gas pipeline section that will go to the existing Tank Battery, will be on state surface. Kerr-McGee will apply for the appropriate state rights of way.

Kerr-McGee, additionally will install a gas gathering line in a southeasterly direction to tie into an existing buried pipeline. The total of this proposed gas gathering from the meter to the tie in point is ±7,990 and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±460' (0.1 miles) – Section 5 T10S R23E (NW/4 SW/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the first meter house to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±1,200' (0.2 miles) – Section 5 T10S R23E (SW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to tie-in to the proposed 10" gas gathering pipeline at the 1023-6H intersection. Please refer to Topo D and Exhibit A, Line 13.
- ±340' (0.1 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 10" buried gas gathering pipeline from the 1023-6H intersection to the edge of the lease line to tie-in to the ROW that is in progress for the Bonanza 1023-6H Pad. Please refer to Exhibit A, Line 12. This pipeline will be used concurrently with the Bonanza 1023-6H Pad.

The following segment is a "ROW in Progress" with the Bonanza 1023-6H Pad

- ±5,990' (1.1 miles) – Section 6 T10S R23E (SW/4 NE/4) – On-lease UTU38419, traveling southeast through NE/4 of Section 5 T10S R23E on lease UTU73450. Continuing on southeasterly through the NW/4 of Section 8 T10S R23E on lease UTU37355 to tie-in the existing 16" gas gathering pipeline. Please see Exhibit A1, Lines 7, 6, 5, 4, 3, 2 and 1.

LIQUID GATHERING

The total liquid gathering pipeline distance from the separator to the tie in point is ±15,030' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

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- ±460' (0.1 miles) – Section 5 T10S R23E (SW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±1,200' (0.2 miles) – Section 5 T10S R23E (SW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the proposed 6" liquid gathering pipeline at the 1023-6H intersection. Please refer to Topo D and Exhibit B, Line 14.
- ±340' (0.1 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the 1023-6H intersection to tie-in to the ROW that is in progress for the Bonanza 1023-6H Pad. Please refer to Exhibit B, Line 15. This pipeline will be used concurrently with the Bonanza 1023-6H Pad.

The following segment is a "ROW in Progress" with the Bonanza 1023-6H Pad

- ±13,030' (2.5 miles) – Section 6 T10S R23E (SW/4 NE/4) – On-lease UTU38419, traveling northwest through Section 6 T10S R23E up to the Section 1, T10S R22E lease boundary. Continuing on southwesterly direction through the W/2 of Section 1 T10S R22E on lease UTU011336 to state section boundary at Section 2, T10S R22E. Please see Exhibit B1, Lines 4, 3, 2 and 1.

The remaining liquid pipeline section that will go to the existing Tank Battery, will be on state surface. Kerr-McGee will apply for the appropriate state rights of way.

Kerr-McGee, additionally will install a liquid gathering line in a southeasterly direction to tie into an existing buried pipeline. The total of this proposed liquid gathering from the separator to the tie in point is ±7,990 and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±460' (0.1 miles) – Section 5 T10S R23E (SW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±1,200' (0.2 miles) – Section 5 T10S R23E (SW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the proposed 6" liquid gathering pipeline at the 1023-6H intersection. Please refer to Topo D and Exhibit B, Line 14.
- ±340' (0.1 miles) – Section 6 T10S R23E (SE/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the 1023-6H intersection to tie-in to the ROW that is in progress for the Bonanza 1023-6H Pad. Please refer to Exhibit B, Line 15. This pipeline will be used concurrently with the Bonanza 1023-6H Pad.

The following segment is a "ROW in Progress" with the Bonanza 1023-6H Pad

- ±5,990' (1.1 miles) – Section 6 T10S R23E (SW/4 NE/4) – On-lease UTU38419, traveling southeast through NE/4 of Section 5 T10S R23E on lease UTU73450. Continuing on southeasterly through the NW/4 of Section 8 T10S R23E on lease UTU37355 to tie-in the existing liquid gathering pipeline. Please see Exhibit A1, Lines 7, 6, 5, 4, 3, 2 and 1.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s), gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30ft.

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Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

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When no longer deemed necessary by the operator, Kerr-McGee or its successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is discussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

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E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

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Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements. Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

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Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface

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accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

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Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseed, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Bonanza Area Mix	Pure Live Seed lbs/acre
Crested Wheat (Hycrest)	2
Bottlebrush Squirreltail	1
Western Wheatgrass	1
(Arriba)	
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee	0.5
Total	9.75

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

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Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

Onsite Specifics:

- Construction: 30 Mil Double Felt
- Facilities: Will be painted Shadow Grey
- Top Soil: Need to save 6" topsoil
- Need to reclaim portion of existing pad in section 6 that is off lease and the existing road

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

Resource Reports:

A Class I literature survey was completed on April 23, 2010 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-066.

A paleontological reconnaissance survey was completed on August 20, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-15.

Biological field survey was completed on April 26, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-207.

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Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year)¹			
Pollutant	Development	Production	Total
NO _x	3.8	0.12	3.92
CO	2.2	0.11	2.31
VOC	0.1	4.9	5
SO ₂	0.005	0.0043	0.0093
PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.025	0.425
Benzene	2.2E-03	0.044	0.046
Toluene	1.6E-03	0.103	0.105
Ethylbenzene	3.4E-04	0.005	0.005
Xylene	1.1E-03	0.076	0.077
n-Hexane	1.7E-04	0.145	0.145
Formaldehyde	1.3E-02	8.64E-05	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison			
Species	Proposed Action Production Emissions (ton/yr)	2012 Uintah Basin Emission Inventory^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NO _x	19.6	16,547	0.12%
VOC	25	127,495	0.02%

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin Data

Bonanza 1023-5E3BS/ 1023-5E3CS/
1023-5L1AS/ 1023-5L3BS
/ 1023-6I3AS
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5L Pad
Surface Use Plan of Operations
15 of 15

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Gina T. Becker

December 7, 2011
Date



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

December 7, 2011

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
Bonanza 1023-6I3AS
T10S-R23E
Section 5: SWNW (Surface), Section 6: NESE (Bottom hole)
Surface: 2616' FNL, 126' FWL Section 5
Bottom Hole: 1985' FSL, 887' FEL Section 6
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing roads and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Sr. Staff Landman

RECEIVED: February 06, 2012



Kerr-McGee Oil & Gas Onshore LP
1999 Broadway, Suite 3700
Denver, CO 80205

December 7, 2011

Mrs. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

RE: Exception Location Request
Bonanza 1023-6I3AS
T10S-R23E
Section 5: SWNW (Surface), Section 6: NESE (Bottom hole)
Surface: 2616' FNL, 126' FWL Section 5
Bottom Hole: 1985' FSL, 887' FEL Section 6
Uintah County, Utah

Dear Mrs. Mason:

Kerr-McGee Oil & Gas Onshore LP has submitted a permit to drill the captioned well to test the Wasatch formation and Mesaverde group. The well is located within the area covered by Cause No. 179-14 which established 320 acre stand up drilling units which require that no well be closer than 460' to any exterior boundary of a 320 acre drilling unit.

We are using our best efforts to utilize existing surface locations in conducting our operations wherever possible in order to minimize surface disturbance. The surface location for this well is in violation of the 460' setback due to the fact that we have a limited number of existing well pads that we can utilize in order to reach all of our planned bottom hole locations in Section 6. The bottom hole location (and producing zones) for this well will be in compliance with the 460' setback to the exterior boundary of the drilling unit covering the E/2 of Section 6. Kerr-McGee owns 100% of the leasehold in all of the offset lands and has no objection to the exception location.

Kerr-McGee requests your approval of this exception location request. If you have any questions or require any additional information, please do not hesitate to call me at 720-929-6147.

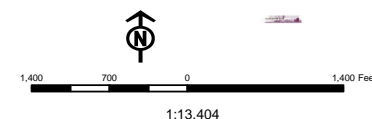
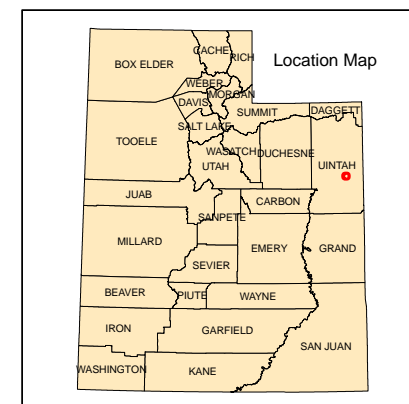
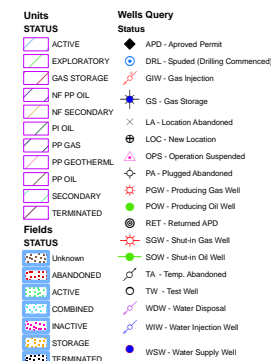
Sincerely,

A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Senior Staff Landman

RECEIVED: February 06, 2012

Map Produced by Diana Mason



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/6/2012

API NO. ASSIGNED: 43047523870000

WELL NAME: Bonanza 1023-6I3AS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SWNW 05 100S 230E

Permit Tech Review: ☒

SURFACE: 2616 FNL 0126 FWL

Engineering Review: ☒

BOTTOM: 1985 FSL 0887 FEL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.97811

LONGITUDE: -109.35979

UTM SURF EASTINGS: 640056.00

NORTHINGS: 4426615.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-38419

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: FEDERAL - WYB000291☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-8496☐ RDCC Review:☐ Fee Surface Agreement☒ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 179-14

Effective Date: 6/12/2008

Siting: 460' Fr Ext Drilling Unit Boundary

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason

RECEIVED: February 15, 2012



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Bonanza 1023-6I3AS

API Well Number: 43047523870000

Lease Number: UTU-38419

Surface Owner: FEDERAL

Approval Date: 2/15/2012

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 179-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

RECEIVED

MAY 15 2012

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIV. OF OIL, GAS & MININGDEC 08 2011
12 AM

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU38419
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		7. If Unit or CA Agreement, Name and No. CA-60768 CR-3
Contact: GINA T BECKER Email: GINA.BECKER@ANADARKO.COM		8. Lease Name and Well No. BONANZA 1023-613AS
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	9. API Well No. 43-047-52387
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNW 2616FNL 126FWL 39.978063 N Lat, 109.359674 W Lon, Sec. 5 At proposed prod. zone NESE 1985FSL 887FEL 39.976139 N Lat, 109.363286 W Lon, Sec. 6		10. Field and Pool, or Exploratory BONANZA
11. Sec., T., R., M., or Blk. and Survey or Area Sec 5 T10S R23E Mer SLB		12. County or Parish UINTAH
13. State UT		14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 48 MILES SOUTH OF VERNAL, UTAH
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 570	16. No. of Acres in Lease 516.80	17. Spacing Unit dedicated to this well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 25	19. Proposed Depth 8686 MD 8489 TVD	20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5224 GL	22. Approximate date work will start 12/31/2011	23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 12/07/2011
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date APR 19 2012
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #125119 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal

NOTICE OF APPROVAL

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

CONDITIONS OF APPROVAL ATTACHED

12RRH0955AE

NO NOS

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil and Gas Onshore LP	Location:	SWNW, Sec.5,T10S R23E
Well No:	Bonanza 1023-6I3AS	Lease No:	UTU-38419
API No:	43-047-52387	Agreement:	CA-60768 CR-3

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit was processed using a 390 CX tied to NEPA approved January 9, 2012. Therefore, this permit is approved for a two (2) year period OR until lease expiration OR the well must be spud by January 9, 2017 (5 years from the NEPA approval date), whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm ut vn opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Site Specific COA's

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gram of NO_x per horsepower-hour.
- All reclamation will comply with the Green River Reclamation Guidelines
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- A permitted paleontologist is to be present to monitor construction at well pad 1023-5L, during all surface disturbing actives: examples include the following building of the well pad, access road, and pipelines.

- The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
 - a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
 - b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
 - c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32" mesh material.
- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:
 - Northeastern Region
 - 152 East 100 North, Vernal, UT 84078
 - Phone: (435) 781-9453
- Discovery Stipulation: Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 200' up and into the surface casing.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of

the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in

hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: Bonanza 1023-6I3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2616 FNL 0126 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047523870000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: MATRIL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/11/2012	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28 SACKS READY MIX. SPUD WELL LOCATION ON JUNE 11, 2012 AT 16:15 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 18, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 6/18/2012	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By J. Scharnowske Phone Number 720.929.6304
Well Name/Number BONANZA 1023-6I3AS
Qtr/Qtr SWNW Section 5 Township 10S Range 23E
Lease Serial Number UTU-38419
API Number 4304752387

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 06/11/2012 07:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

RECEIVED

JUN 08 2012

DIV. OF OIL, GAS & MINING

Date/Time 06/24/2012 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6304

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752071	Bonanza 1023-5E3BS		SWNW	5	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18578	6/11/2012			6/20/2012	
Comments: MIRU TRIPLE A BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 06/11/2012 AT 14:10 HRS. <i>BHL SWNW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752387	Bonanza 1023-6I3AS		SWNW	5	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18579	6/11/2012			6/20/2012	
Comments: MIRU TRIPLE A BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 06/11/2012 AT 16:15 HRS. <i>BHL S6 nose</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

JAIME SCHARNOWSKE

Name (Please Print) *Jaime Scharnowske*

Signature
REGULATORY ANALYST

Title Date

6/18/2012

Date

RECEIVED

JUN 18 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: Bonanza 1023-6I3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2616 FNL 0126 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047523870000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		6. COUNTY: UTAH
7. STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/10/2012	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for a FIT wavier, closed loop drilling option and a production casing change. The production casing change includes a switch from 4-1/2 inch I-80 11.6 LB BTC/LTC casing to 4-1/2 inch I-80 11.6 LB Ultra DQX/LTC casing. All other aspects of the previously approved drilling plan will not change. These proposals do not deviate from previously submitted and approved plans. Please see attachment. Thank you.

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: July 12, 2012

By: *Derek Quist*

NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 7/10/2012	

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-38419
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: Bonanza 1023-6I3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2616 FNL 0126 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047523870000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/7/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
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	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
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	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON 7/6/2012. DRILLED SURFACE HOLE TO 2496'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 25, 2012		
NAME (PLEASE PRINT) Cara Mahler	PHONE NUMBER 720 929-6029	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 7/23/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																									
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5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES																									
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		COUNTY: UTAH																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">TYPE OF SUBMISSION</th> <th colspan="4">TYPE OF ACTION</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: </td> <td style="vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </td> <td style="vertical-align: top;"> OTHER: <input style="width: 100px;" type="text"/> </td> </tr> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: </td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> SPUD REPORT Date of Spud: </td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="vertical-align: top;"> <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/4/2012 </td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			TYPE OF SUBMISSION	TYPE OF ACTION				<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>	<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:					<input type="checkbox"/> SPUD REPORT Date of Spud:					<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/4/2012				
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/4/2012																											
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No Activity for the month of August 2012. Well TD at 2,507																											
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 05, 2012																											
NAME (PLEASE PRINT) Lindsey Frazier		PHONE NUMBER 720 929-6857																									
SIGNATURE N/A		TITLE Regulatory Analyst II																									
DATE 9/4/2012																											

State of Utah - Notification Form

Operator KERR MCGEE OIL AND GAS Rig Name/# XTREME 12
Submitted By KENNY MORRIS Phone Number 435- 828-0985
Well Name/Number BONANZA 1023-6I3AS
Qtr/Qtr SW/NW Section 5 Township 10S Range 23E
Lease Serial Number UTU-38419 CA-60768
API Number 43-047523870000

Casing – Time casing run starts, not cementing times.

- ☒ Production Casing
☐ Other

Date/Time 18:00 AM ☐ PM ☒

RECEIVED

SEP 11 2012

BOPE

- ☐ Initial BOPE test at surface casing point
☐ Other

DIV. OF OIL, GAS & MINING

Date/Time AM ☐ PM ☐

Rig Move

Location To:

Date/Time AM ☐ PM ☐

Remarks TIME IS ESTIMATED

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6I3AS
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PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/14/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="display: flex; justify-content: space-between;"> <div style="width: 65%;"> FINISHED DRILLING TO 8675.00' ON 09/13/2012. CEMENTED PRODUCTION CASING. RELEASED XTC 12 RIG ON 9/14/2012. DETAILS OF CASING AND CEMENT WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. </div> <div style="width: 30%; text-align: center;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 18, 2012 </div> </div>		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 9/17/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: PONDEROSA
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6I3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2616 FNL 0126 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047523870000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		COUNTY: UINTAH
STATE: UTAH		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/14/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. FINISHED DRILLING TO 8,675' ON 09/12/2012. CEMENTED PRODUCTION CASING. RELEASED XTC 12 RIG ON 09/14/2012. DETAILS OF CASING AND CEMENT WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 28, 2012		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 9/27/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-38419
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6I3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2616 FNL 0126 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047523870000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/5/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No Activity for the month of October 2012. Well TD at 8,675.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 06, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regularatory Analyst
SIGNATURE N/A	DATE 11/5/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-38419
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6I3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2616 FNL 0126 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047523870000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/8/2012	<input type="checkbox"/> SPUD REPORT Date of Spud:	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> APD EXTENSION OTHER: ACTS PIT	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center;"> THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM. </div> <div style="text-align: right; margin-top: 20px;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 27, 2012 </div>		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 11/8/2012	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6304

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
Various	Ponderosa Wells						UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
	18421	18519				5/1/2012	
Comments: Move the attached wells into the Ponderosa unit. All wells are WSMVD. 11/16/2012							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

JAIME SCHARNOWSKE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

11/8/2012

Date

RECEIVED

NOV 08 2012

Well Name	Quarter/Quarter	Section	Township	Range	APUI Number	County	New Entity Number	Formation
BONANZA 1023-6J2AS	NESW	6	10S	23E	4304751465	Uintah	18519	WSMVD
BONANZA 1023-6K1CS	NESW	6	10S	23E	4304751466	Uintah	18519	WSMVD
BONANZA 1023-6K2BS	NESW	6	10S	23E	4304751467	Uintah	18519	WSMVD
BONANZA 1023-6K2CS	NESW	6	10S	23E	4304751468	Uintah	18519	WSMVD
BONANZA 1023-6L2AS	NESW	6	10S	23E	4304751469	Uintah	18519	WSMVD
BONANZA 1023-6L2DS	NESW	6	10S	23E	4304751470	Uintah	18519	WSMVD
BONANZA 1023-6O1BS	SWSE	6	10S	23E	4304751473	Uintah	18519	WSMVD
BONANZA 1023-6O2DS	SWSE	6	10S	23E	4304751474	Uintah	18519	WSMVD
BONANZA 1023-6O3AS	SWSE	6	10S	23E	4304751475	Uintah	18519	WSMVD
BONANZA 1023-6P2BS	SWSE	6	10S	23E	4304751476	Uintah	18519	WSMVD
BONANZA 1023-6P3CS	SWSE	6	10S	23E	4304751478	Uintah	18519	WSMVD
BONANZA 1023-5J2DS	NESW	5	10S	23E	4304752063	Uintah	18519	WSMVD
BONANZA 1023-5K1BS	NESW	5	10S	23E	4304752064	Uintah	18519	WSMVD
BONANZA 1023-5K1CS	NESW	5	10S	23E	4304752065	Uintah	18519	WSMVD
BONANZA 1023-5K3DS	NESW	5	10S	23E	4304752066	Uintah	18519	WSMVD
BONANZA 1023-5L1DS	NESW	5	10S	23E	4304752067	Uintah	18519	WSMVD
BONANZA 1023-5L4AS	NESW	5	10S	23E	4304752068	Uintah	18519	WSMVD
BONANZA 1023-5L4DS	NESW	5	10S	23E	4304752069	Uintah	18519	WSMVD
BONANZA 1023-5O2AS	NESW	5	10S	23E	4304752070	Uintah	18519	WSMVD
BONANZA 1023-5E3BS	SWNW	5	10S	23E	4304752071	Uintah	18519	WSMVD
BONANZA 1023-5E3CS	SWNW	5	10S	23E	4304752072	Uintah	18519	WSMVD
BONANZA 1023-5L1AS	SWNW	5	10S	23E	4304752073	Uintah	18519	WSMVD
BONANZA 1023-5L3BS	SWNW	5	10S	23E	4304752074	Uintah	18519	WSMVD
BONANZA 1023-5M1AS	SWSW	5	10S	23E	4304752075	Uintah	18519	WSMVD
BONANZA 1023-5M1CS	SWSW	5	10S	23E	4304752076	Uintah	18519	WSMVD
BONANZA 1023-5M3BS	SWSW	5	10S	23E	4304752077	Uintah	18519	WSMVD
BONANZA 1023-5M3CS	SWSW	5	10S	23E	4304752078	Uintah	18519	WSMVD
BONANZA 1023-5N3CS	SWSW	5	10S	23E	4304752079	Uintah	18519	WSMVD
BONANZA 1023-5O4BS	SESE	5	10S	23E	4304752082	Uintah	18519	WSMVD
BONANZA 1023-5P1AS	SESE	5	10S	23E	4304752083	Uintah	18519	WSMVD
BONANZA 1023-5P1CS	SESE	5	10S	23E	4304752084	Uintah	18519	WSMVD
BONANZA 1023-5P4CS	SESE	5	10S	23E	4304752085	Uintah	18519	WSMVD
BONANZA 1023-5C4AS	NENW	5	10S	23E	4304752089	Uintah	18519	WSMVD
BONANZA 1023-5F2CS	NENW	5	10S	23E	4304752090	Uintah	18519	WSMVD
BONANZA 1023-5F3AS	NENW	5	10S	23E	4304752091	Uintah	18519	WSMVD
BONANZA 1023-5C2CS	NWNW	5	10S	23E	4304752092	Uintah	18519	WSMVD
BONANZA 1023-5D2DS	NWNW	5	10S	23E	4304752093	Uintah	18519	WSMVD
BONANZA 1023-5D3AS	NWNW	5	10S	23E	4304752094	Uintah	18519	WSMVD
BONANZA 1023-5E2AS	NWNW	5	10S	23E	4304752095	Uintah	18519	WSMVD
BONANZA 1023-6A1CS	NWNW	5	10S	23E	4304752096	Uintah	18519	WSMVD
BONANZA 1023-6I3AS	SWNW	5	10S	23E	4304752387	Uintah	18519	WSMVD
BONANZA 11-2	SWNW	11	10S	23E	4304734773	Uintah	18519	WSMVD
BONANZA 1023-6E4AS	SENW	6	10S	23E	4304751453	Uintah	18519	WSMVD
BONANZA 1023-6F1AS	SENW	6	10S	23E	4304751454	Uintah	18519	WSMVD
BONANZA 1023-6F1CS	SENW	6	10S	23E	4304751455	Uintah	18519	WSMVD
BONANZA 1023-6F4CS	SENW	6	10S	23E	4304751456	Uintah	18519	WSMVD
BONANZA 1023-6G2AS	SENW	6	10S	23E	4304751457	Uintah	18519	WSMVD
BONANZA 1023-6G4CS	SENW	6	10S	23E	4304751458	Uintah	18519	WSMVD
BONANZA 1023-6A3DS	SENE	6	10S	23E	4304751459	Uintah	18519	WSMVD
BONANZA 1023-6G1DS	SENE	6	10S	23E	4304751460	Uintah	18519	WSMVD
BONANZA 1023-6H1BS	SENE	6	10S	23E	4304751461	Uintah	18519	WSMVD
BONANZA 1023-6H2CS	SENE	6	10S	23E	4304751462	Uintah	18519	WSMVD
BONANZA 1023-6I2AS	SENE	6	10S	23E	4304751463	Uintah	18519	WSMVD
BONANZA 1023-6I3DS	SWSE	6	10S	23E	4304751471	Uintah	18519	WSMVD
BONANZA 1023-6J4AS	SWSE	6	10S	23E	4304751472	Uintah	18519	WSMVD
BONANZA 1023-6P3AS	SWSE	6	10S	23E	4304751477	Uintah	18519	WSMVD

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2616 FNL 0126 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047523870000
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COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/3/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No Activity for the month of November 2012. Well TD at 8,675.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 03, 2012		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 12/3/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6I3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2616 FNL 0126 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047523870000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/3/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Started completing the well. Well TD at 8,675		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 04, 2013		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/3/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-38419
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: PONDEROSA
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: BONANZA 1023-6I3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2616 FNL 0126 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		9. API NUMBER: 43047523870000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/11/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The subject well was placed on production on 01/11/2013. The Chronological Well History will be submitted with the well completion report.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 25, 2013		
NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/17/2013	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU38419

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
UTU88209A

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE Mail: lindsey.frazier@anadarko.com

8. Lease Name and Well No.
BONANZA 1023-613AS

3. Address
PO BOX 173779
DENVER, CO 80217

3a. Phone No. (include area code)
Ph: 720-929-6857

9. API Well No.
43-047-52387

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

Sec 5 T10S R23E Mer SLB
At surface SWNW 2616FNL 126FWL 39.978063 N Lat, 109.359674 W Lon

Sec 6 T10S R23E Mer SLB

At top prod interval reported below NESE 1995FSL 898FEL

Sec 6 T10S R23E Mer SLB

At total depth NESE 1984FSL 871FEL

BHL by DOGM HSM

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area Sec 5 T10S R23E Mer SLB

12. County or Parish
UINTAH

13. State
UT

14. Date Spudded
06/11/2012

1941 FSL

15. Date T.D. Reached
09/12/2012

16. Date Completed
☐ D & A ☒ Ready to Prod.
01/11/2013

17. Elevations (DF, KB, RT, GL)*
5238 KB

18. Total Depth: MD 8675
TVD 8482

19. Plug Back T.D.: MD 8613
TVD 8420

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/GR/CCL/TEMP-RCBL/GR/CCL AFTER SQUEEZE

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2477		600		0	
7.875	4.500 I-80	11.6	0	8659		1395		3290	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7800							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5742	6448	5742 TO 6448	0.360	72	OPEN
B) MESAVERDE	7167	8265	7167 TO 8265	0.360	90	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5742 TO 8265	PUMP 6474 BBLs SLICK H2O AND 148,732 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/11/2013	01/13/2013	24	→	0.0	1075.0	0.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	385 SI	750.0	→	0	1075	0		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

RECEIVED

FEB 12 2013

DIV. OF OIL, GAS & MINING

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #197609 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1157 1478 1979 4388 6520

32. Additional remarks (include plugging procedure):

The first 210' of the surface hole was drilled with a 12" bit. The remainder of surface hole was drilled with an 11" bit. A top down cement job using 350 sx cement was performed on 12/12/2012 to get cement to surface. DQX csg was run from surface to 5057'; LTC csg was run from 5057' to 8659'. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- | | | | |
|-------------------------------------------------------|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #197609 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal**

Name (please print) LINDSEY A FRAZIERTitle REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 02/07/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I3AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 6/13/2012

End Date: 9/14/2012

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW/0/10/S/23/E/5/0/0/26/PM/N/2616/W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/6/2012	2:00 - 4:30	2.50	DRLSUR	01	C	P		SKID TO WELL 5/5 RIG UP AND PREPARE TO SPUD
	4:30 - 6:00	1.50	DRLSUR	02	C	P		SPUD DRILL 12.25" HOLE 44 ft TO 210 ft (166 FT, 111 FPH). WOB 5-15 Kips. GPM 491. PSI ON/OFF 750/500. SURFACE RPM 55, MOTOR 83, TOTAL RPM 138. UP/DOWN/ ROT 20/20/20 K. DRAG 0 Kips . CIRCULATE CLOSED LOOP SYSTEM DRILL DOWN TO 210 ft W/6 in COLLARS.
	6:00 - 9:00	3.00	DRLSUR	06	A	P		TRIP OUT BREAK OUT 12.25" BIT PICK UP 11" BIT AND DIRECTIONAL TOOLS INSTALL EM TOOL AND ORIENT TO MUD MOTOR
	9:00 - 18:00	9.00	DRLSUR	02	C	P		DRILL 11" SURFACE HOLE 210' - 1340' ROP 125 FT HR WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1350/1080. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 60/45/51 K. DRAG 9 K. 2' right 1' high of the lineDrilling 76.64% 984' Sliding 300' 23.36% total drilled 1284'CIRCULATE CLOSED LOOP SYSTEM WITH 8.6# WATER. RUNNING VOLUME OVER BOTH SHAKERS 200 API SCREENS ON SHAKERS NO HOLE ISSUES
	18:00 - 0:00	6.00	DRLSUR	02	C	P		DRILL 11" SURFACE HOLE F/ 1340'-1790' 450' ROP 75 FT HR WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1480/1350. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 83/58/70 K. DRAG 13 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.6# WATER. RUNNING VOLUME OVER BOTH SHAKERS 200 API SCREENS ON SHAKERS HOLE ISSUES / LOST CIRC @1550' 2' left 6' high slide 19.2% 402', drilling 80.8%1692' total 2094'

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I3AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 6/13/2012

End Date: 9/14/2012

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW/0/10/S/23/E/5/0/0/26/PM/N/2616/W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/7/2012	0:00 - 7:30	7.50	DRLSUR	02	C	P		DRILL 11" SURFACE HOLE F/1790' TO 2496' 706' @ 94 FT HR WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1420/1280. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 83/60/70 K. DRAG 13 K. CIRCULATE CLOSED LOOP SYSTEM WITH 8.6# WATER. RUNNING VOLUME OVER BOTH SHAKERS 200 API SCREENS ON SHAKERS HOLE ISSUES / LOST CIRC @1550'
	7:30 - 10:00	2.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
	10:00 - 14:00	4.00	DRLSUR	06	A	P		TOOH LAYING DOWN DRILL STRING BREAK DOWN DIRECTIONAL TOOLS MOTOR AND BIT L/D EM TOOL
	14:00 - 19:30	5.50	DRLSUR	12	C	P		RIG UP AND RUN 56 JOINTS OF 8.625" 28# J55 SURFACE CASING SHOE AT 2461.91' R/D RUN 200' 1" DOWN BACK SIDE
	19:30 - 0:00	4.50	DRLSUR	12	E	P		HELD SM WITH PRO PETRO CEMENTERS PRESSURE TEST LINES TO 2000 PSI. PUMP 140 BBLS OF WATER AHEAD. CATCH PSI. PUMP 20 BBLS OF 8.3# GEL WATER AHEAD. MIX AND PUMP (300 SX) 61.4 BBLS OF 15.8# 1.15 YD 5 GAL/SK PREMIUM CEMENT W/ 2% CALC. DROP PLUG ON FLY. DISPLACE W/ 150.7 BBLS OF H2O. NO CIRC THROUGH OUT. FINAL LIFT OF 150 PSI AT 4 BBL/MIN. BUMP PLUG WITH 450 PSI FOR 5 MIN. FLOAT HELD. MIX AND PUMP (150 SX) 30.7 BBLS OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE, NO CEMENT TO SURFACE. SHUT DOWN AND CLEAN TRUCK.. WAIT 1.5 HOURS MIX AND PUMP (150 SX) 30.7 BBLS OF SAME TAIL CEMENT W/ 4% CALC. DOWN BACKSIDE NO CEMENT TO SURFACE. NO CEMENT TO SURFACE. SHUT DOWN AND CLEAN TRUCK. (CLEAN PITS WITH VAC TRUCK.) RELEASE RIG @00:00 7/8/2012
9/8/2012	6:00 - 6:30	0.50	MIRU	01	E	P		PREP FOR SKID
	6:30 - 7:30	1.00	MIRU	01	C	P		SKID RIG TO NEXT WELL
	7:30 - 8:30	1.00	PRPSPD	14	A	P		NIPPLE UP BOP,FUNCTION TEST
	8:30 - 16:00	7.50	PRPSPD	15	A	P		TEST BOP & TOP DRIVE VALVE,DART VALVE, BLIND RAMS, VALVES INSIDE OUTSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES. CASING TO 1500 PSI FOR 30 MINUTES.
	16:00 - 16:30	0.50	PRPSPD	14	B	P		INSTALL WEARBUSHING
	16:30 - 19:00	2.50	PRPSPD	06	A	P		PICK UP BIT #1 SCRIBE DIRECTIONAL TOOL,TRIP IN BHA
	19:00 - 20:00	1.00	PRPSPD	09	A	P		CUT & SLIP DRILL LINE
	20:00 - 21:00	1.00	PRPSPD	06	A	P		TRIP IN AND TAG CEMENT AT 2372'
	21:00 - 22:00	1.00	DRLPRC	02	F	P		DRILL CEMENT AND SHOE TRACK TO 2507'

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I3AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 6/13/2012

End Date: 9/14/2012

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW/0/10/S/23/E/5/0/0/26/PM/N/2616/W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	22:00 - 0:00	2.00	DRLPRC	02	D	P		DRILL SLIDE 2507 TO 2700=193 AVG 96 WEIGHT ON BIT 18-20K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1380 / 1930. DIFFERENTIAL 500 TORQUE HIGH/LOW 7800/3200. OFF BOTTOM TORQUE 3000 STRING WEIGHT UP/DOWN/ROT 75/65/70. DRAG 5K. BIT POSITION : 1' LEFT & 2 S OF LINE SLIDE 18.06% ROTATE 81.94%. NOV RUNNING CONE WITH 2 CENTRIFUGES ON DEWATER. WT 8.8 VIS 26.
9/9/2012	0:00 - 5:30	5.50	DRLPRC	02	B	P		DRILL SLIDE 2700 TO 3351=651 AVG 118 WEIGHT ON BIT 18-20K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1380 / 1800 DIFFERENTIAL 500 TORQUE HIGH/LOW 7800/3200. OFF BOTTOM TORQUE 3000 STRING WEIGHT UP/DOWN/ROT 75/65/70. DRAG 5K. BIT POSITION : 7 EAST 24 SOUTH SLIDE =85' 14% TIME 31% ROTATE =529' 86% TIME 68% NOV RUNNING CONE WITH 2 CENTRIFUGES ON DEWATER. WT 8.8 VIS 26.
	5:30 - 6:00	0.50	DRLPRC	07	A	P		RIG SERVICE
	6:00 - 17:30	11.50	DRLPRC	02	B	P		DRILL SLIDE 3351 TO 4681=1330 AVG 115 WEIGHT ON BIT 18-20K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1500/1900 DIFFERENTIAL 400 TORQUE HIGH/LOW 4800/9900. OFF BOTTOM TORQUE 4600 STRING WEIGHT UP/DOWN/ROT 100/89/78 DRAG 10-16. BIT POSITION : 15' EAST 11' NORTH SLIDE=197' 14% TIME 25% ROTATE=1175' 85% TIME 75% NOV RUNNING CONE WITH 2 CENTRIFUGES ON DEWATER. WT 8.8 VIS 26.
	17:30 - 18:00	0.50	DRLPRC	07	A	P		RIG SERVICE

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I3AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 6/13/2012

End Date: 9/14/2012

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW/0/10/S/23/E/5/0/0/26/PM/N/2616/NW/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRC	02	D	P		DRILL SLIDE 4681 TO 5095=414 AVG 69 WEIGHT ON BIT 18-20K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1500/1900 DIFFERENTIAL 400 TORQUE HIGH/LOW 4800/9900. OFF BOTTOM TORQUE 5800 STRING WEIGHT UP/DOWN/ROT 130/98/80 DRAG 20-25 BIT POSITION : 5' NORTH 18' WEST OF CENTER SLIDE=75' 18% TIME 44 ROTATE=350' 82% TIME 56 NOV RUNNING CONE WITH 2 CENTRIFUGES ON DEWATER. WT 8.6 VIS 28
9/10/2012	0:00 - 5:30	5.50	DRLPRV	02	B	P		DRILL SLIDE 5095 TO 5694=599 AVG 109 WEIGHT ON BIT 18-20K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1500/1900 DIFFERENTIAL 400 TORQUE HIGH/LOW 4800/9900. OFF BOTTOM TORQUE 5800 STRING WEIGHT UP/DOWN/ROT 140/90/100 DRAG 20 BIT POSITION : 5' NORTH 18' WEST OF CENTER SLIDE=35' 7% TIME 23% ROTATE=468' 93% TIME 77% NOV RUNNING CONE WITH 2 CENTRIFUGES ON DEWATER. WT 8.6 VIS 28
	5:30 - 6:00	0.50	DRLPRV	07	A	P		RIG SERVICE
	6:00 - 17:30	11.50	DRLPRV	02	B	P		DRILL SLIDE F/5694 TO 6625=931 AVG 81 WEIGHT ON BIT 18-20K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1750/2100 DIFFERENTIAL 350 TORQUE HIGH/LOW 6500/10100. OFF BOTTOM TORQUE 6300 STRING WEIGHT UP/DOWN/ROT 160/115/100 DRAG 30 BIT POSITION :19' NORTH 11' WEST OF CENTER SLIDE=48' 4.7% TIME 17% ROTATE=968' 95.2% TIME 83% NOV RUNNING CONE WITH 2 CENTRIFUGES ON DEWATER. WT 8.8 VIS 28
	17:30 - 18:00	0.50	DRLPRV	07	A	P		RIG SERVICE

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I3AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 6/13/2012

End Date: 9/14/2012

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW/0/10/S/23/E/5/0/0/26/PM/N/2616W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRV	02	B			DRILL SLIDE F/6625 TO 7110 =485 AVG 81 WEIGHT ON BIT 18-20K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1750/2100 DIFFERENTIAL 350 TORQUE HIGH/LOW 7500/11400 OFF BOTTOM TORQUE 7400 STRING WEIGHT UP/DOWN/ROT 170/120/100 BIT POSITION : 15 NORTH 6WEST OF CENTER SLIDE= 16' 3% TIME 24% ROTATE=469' 97% TIME 76% NOV RUNNING CONVENTIONAL WITH 8.7/ 36 VIS ***WORK PIPE FREE AFTER SLIDE***
9/11/2012	0:00 - 1:30	1.50	DRLPRV	22	A	X		
	1:30 - 2:00	0.50	DRLPRV	07	A	P		RIG SERVICE
	2:00 - 17:30	15.50	DRLPRV	02	B	P		DRILL SLIDE F/7110 TO 8080 =970 AVG 62 WEIGHT ON BIT 22-24K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 2100/2400 DIFFERENTIAL 350 TORQUE HIGH/LOW 7500/11400 OFF BOTTOM TORQUE 9200 STRING WEIGHT UP/DOWN/ROT 178/130/110 BIT POSITION : 15 NORTH 1 WEST OF CENTER SLIDE=15% ROTATE=85% WITH 10.4/40 NOV BYPASSED RIG SERVICE
	17:30 - 18:00	0.50	DRLPRV	07	A	P		
	18:00 - 0:00	6.00	DRLPRV	02	B	P		DRILL SLIDE F/8080 TO 8310 =230 AVG 38 WEIGHT ON BIT 22-24K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 105 GALLONS PER MINUTE 470 OFF/ON PSI 2450-2750 DIFFERENTIAL 250 TORQUE HIGH/LOW 9200/11400 OFF BOTTOM TORQUE 9200 STRING WEIGHT UP/DOWN/ROT 180/130/105 BIT POSITION : 9 NORTH 8' EAST OF CENTER SLIDE= 0% ROTATE=100% MUD WT 11.2 / VIS 42 NOV BYPASSED

US ROCKIES REGION
Operation Summary Report

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UWI: SW/NW0/10/S/23/E/5/0/0/26/PM/N/2616/W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/12/2012	0:00 - 5:30	5.50	DRLPRV	02	B	P		DRILL SLIDE F/8310 TO 8525 =215 AVG 39 WEIGHT ON BIT 22-24K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 105 GALLONS PER MINUTE 470 OFF/ON PSI 2450-2750 DIFFERENTIAL 250 TORQUE HIGH/LOW 9200/12800 OFF BOTTOM TORQUE 10400 STRING WEIGHT UP/DOWN/ROT 180/130/105 BIT POSITION : 9 NORTH 8' EAST OF CENTER SLIDE= 0% ROTATE=100% MUD WT 11.2 / VIS 42 NOV BYPASSED RIG SERVICE
	5:30 - 6:00	0.50	DRLPRV	07	A	P		
	6:00 - 9:30	3.50	DRLPRV	02	B	P		DRILL SLIDE F/8525 TO TD 8675' =150' @ 42.8'/HR WEIGHT ON BIT 22-24K. . ROTARY RPM 55, MUD MOTOR RPM 104. STROKES PER MINUTE 100 GALLONS PER MINUTE 420 OFF/ON PSI 2600/2900 DIFFERENTIAL 300 TORQUE HIGH/LOW 10200/12800 OFF BOTTOM TORQUE 11200 STRING WEIGHT UP/DOWN/ROT 180/130/105 BIT POSITION : 8675' 0'N 16'E OF CENTER SLIDE= 0% ROTATE=100% MUD WT 11.6 / VIS 42 NOV BYPASSED CIRCULATED AND CONDITION FOR THE WIPER TRIP.
	9:30 - 11:00	1.50	DRLPRV	05	C	P		PUMPED OUT OF THE HOLE TO 6600' PUMPED A PILL THEN TRIPPED TO THE CASING SHOE. HOLE DRAG FROM 5300' - 5000', 4420'-4350' & 4000' RIG SERVICE
	11:00 - 17:30	6.50	DRLPRV	06	E	P		FILLED THE PIPE AND TRIPPED BACK IN THE HOLE. WASHED BRIDGES @ 4000' & 4220', 5300', 5475'. FINISHED TRIPPING IN THE HOLE ON THE WIPER TRIP. WASHED THE LAST JOINT TO BOTTOM.
9/13/2012	0:00 - 0:30	0.50	DRLPRV	06	E	P		CIRCULATE AND CONDITIONED THE HOLE FOR A CASING RUN. 6' FLARE ON BOTTOMS UP. 11.7 MW 42 VIS
	0:30 - 2:30	2.00	DRLPRV	05	C	P		TRIP OUT OF THE HOLE TO RUN CASING PUMPED AND ROTATED OUT OF THE HOLE TO 7100'. RIG SERVICE
	2:30 - 5:30	3.00	DRLPRV	06	A	P		TRIP OUT OF THE HOLE TO RUN CASING TIGHT SPOTS @ 5500'-5200', 4500'. PULL THE WEAR BUSHING
	5:30 - 6:00	0.50	DRLPRV	07	A	P		
	6:00 - 14:30	8.50	DRLPRV	06	A	P		
	14:30 - 15:00	0.50	DRLPRV	14	B	P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I3AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 6/13/2012

End Date: 9/14/2012

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW0/10/S/23/E/5/0/0/26/PM/N/2616/W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:00 - 0:00	9.00	CSGPRO	12	C	P		RIG UP KIMSEY CASING AND RAN 198 TOTAL JTS. OF CASING (81 JOINTS OF 4.5"/11.6# / I-80/ LTC + 1 MARKER) + (114 JTS. OF 4.5"/ 11.6#/ I-80/ DQX) + (1-DQX CROSS OVER). LANDED @ 8659.20', FLOAT COLLAR @ 8612.88', MESA VERDE MARKER @ 6427.16', CROSS OVER JT. @ 5036.3'. MIDNIGHT DEPTH 7200'
9/14/2012	0:00 - 3:00	3.00	CSGPRO	12	C	P		RAN 198 TOTAL JTS. OF CASING (81 JOINTS OF 4.5"/11.6# / I-80/ LTC + 1 MARKER) + (114 JTS. OF 4.5"/ 11.6#/ I-80/ DQX) + (1-DQX CROSS OVER). LANDED @ 8659.20', FLOAT COLLAR @ 8612.88', MESA VERDE MARKER @ 6427.16', CROSS OVER JT. @ 5036.3'.
	3:00 - 4:00	1.00	CSGPRO	05	D	P		CIRCULATED THE CASING ON BOTTOM. 80SPM, 360 GPM, 800 PSI NO FLARE 11.7 MW 40 VIS
	4:00 - 7:30	3.50	CSGPRO	12	E	P		PRESSURE TEST TO 5000 PSI. DROPPED THE BOTTOM PLUG, PUMP 25 BBLS OF FRESH WATER. PUMP 162 BBLS (460 SX) OF PREMIUM LITE II LEAD CEMENT, 12.5 PPG 1.98 YLD. .05 LB/SACK OF STATIC FREE + .4%BWOC R-3 + .25 LBS/SACK CELLO FLAKE + 5 LBS/SACK KOL-SEAL + .4% BWOC FL-52 + .2%BWOC SODIUM METASILICATE + 6% BWOC BENTONITE + 100.1%FRESH WATER . FOLLOWED BY 218 BBLS (935 SX) OF 14.3# 1.31 YD 5.91 GAL/SK. POZ 50/50 TAIL CEMENT + 2% BWOC BENTONITEI + .005 LB/SACK STATIC FREE + 10% BWOW SODIUM CHLORIDE + .15%BWOC R-3 + .002GPS FP-6L + 58.7% FRESH WATER . SHUT DOWN AND FLUSH LINES. DROP PLUG AND DISPLACE W/ 134.3 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. LOST RETURNS AT THE START OF DISPLACEMENT, 0 BBLS OF WATER AND NO CEMENT TO SURFACE. LIFT PSI OF 2800 / BUMP PLUG 3500 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 700', EST TOC FOR TAIL 3880'. RIG DOWN CEMENTERS. SET THE PACK OFF AND NIPPLE DOWN THE BOP, NIPPLE DOWN THE CHOKE MANIFOLD CLEANING PITS AND RIGGING DOWN
	7:30 - 9:00	1.50	RDMO	14	A	P		
	9:00 - 9:30	0.50	RDMO	01	E	P		

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-6I3AS ORANGE	Wellbore No.	OH
Well Name	BONANZA 1023-6I3AS	Wellbore Name	BONANZA 1023-6I3AS
Report No.	1	Report Date	12/5/2012
Project	UTAH-UINTAH	Site	BONANZA 1023-5L PAD
Rig Name/No.		Event	COMPLETION
Start Date	12/5/2012	End Date	1/11/2013
Spud Date	7/6/2012	Active Datum	RKB @5,238.00usft (above Mean Sea Level)
UWI	SW/NW/010/S/23/E/5/0/0/26/PM/N/2616/W/0126/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	5,742.0 (usft)-8,265.0 (usft)	Start Date/Time	12/31/2012 12:00AM
No. of Intervals	42	End Date/Time	12/31/2012 12:00AM
Total Shots	162	Net Perforation Interval	52.00 (usft)
Avg Shot Density	3.12 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/31/2012 12:00AM	WASATCH/			5,742.0	5,743.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/31/2012 12:00AM	WASATCH/			5,758.0	5,759.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			5,898.0	5,899.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			5,929.0	5,930.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			5,937.0	5,939.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			5,983.0	5,985.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			5,992.0	5,993.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			6,011.0	6,012.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			6,100.0	6,102.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			6,108.0	6,109.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			6,120.0	6,121.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			6,239.0	6,241.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			6,313.0	6,315.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			6,402.0	6,404.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	WASATCH/			6,446.0	6,448.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr. Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/31/2012 12:00AM	MESAVERDE/			7,167.0	7,168.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,180.0	7,181.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,254.0	7,255.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,279.0	7,280.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,301.0	7,302.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,312.0	7,313.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,397.0	7,398.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,435.0	7,436.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,698.0	7,700.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,723.0	7,725.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,752.0	7,753.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,775.0	7,776.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,810.0	7,811.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,841.0	7,842.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12/31/2012 12:00AM	MESAVERDE/			7,865.0	7,867.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,893.0	7,894.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,952.0	7,953.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			7,991.0	7,992.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			8,000.0	8,001.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			8,025.0	8,026.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			8,056.0	8,057.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			8,072.0	8,073.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			8,105.0	8,106.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			8,139.0	8,140.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			8,161.0	8,162.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			8,256.0	8,257.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12/31/2012 12:00AM	MESAVERDE/			8,264.0	8,265.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I3AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No:

Event: COMPLETION

Start Date: 12/5/2012

End Date: 1/11/2013

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW/0/10/S/23/E/5/0/0/26/PM/N/2616/W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/6/2012	-							
12/5/2012	13:15 - 13:30	0.25	FRAC	33	C	P		NO OPERATIONS JUST CHECKED OUT WELL
12/6/2012	-							
12/11/2012	12:00 - 13:00	1.00	FRAC	33	C	P		RU ADDLER HOT OILER, FILLED SURFACE WITH 4 TO 5 BBLS H2O PRESSURED TO 800 PSI PUMPED 5 BBLS @ 2 BPM 600 PSI, ISIP 600 EST CMT TOP FROM CBL LOG 3200' SURFACE CSG @ 2477' WILL CEMENT IN AM
12/12/2012	7:00 - 8:00	1.00	FRAC	33	C	P		FILL SURFACE CSG. MIRU B&C QUICK TEST. 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 74 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG
	8:00 - 8:00	0.00	FRAC	51	B	P		BLEED OFF PSI. MOVE T/ NEXT WELL. SWFN RU SCHLUMBERGER, PRESSURE TESTED PUMP & LINES TO 1900 PSI GOOD CEMENTED 8 5/8 X 4 1/2 SURFACE AS FOLLOWS BELOW
								WELL FULL ESTABLISHED INJECTION RATE @ 3 BPM @750 PSI PUMPED 10 BBLS FRESH WATER PUMPED 10 BBLS CALCIUM CHLORIDE PUMPED 10 BBLS FRESH WATER PUMPED 10 BBLS ZONE LOCK PUMPED 10 BBLS FRESH WATER MIXED 350 SKS THIXOTROPIC CLASS G CEMENT @ 12.5 PPG, CEMENT 120 BBLS FLUSHED WITH 3 BBLS FRESH WATER TOTAL FLUID PUMPED 173 BBLS SW
12/14/2012	7:00 - 11:00	4.00	FRAC	37		P		RU WL RAN CBL FROM 3300' TO SURFACE GOOD BOND FROM 2600' TO SURFACE
								PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW
12/17/2012	7:00 - 7:15	0.25	FRAC	48		P		SAFETY = JSA AND PRE-JOB GATHERING.

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I3AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No:

Event: COMPLETION

Start Date: 12/5/2012

End Date: 1/11/2013

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW/0/10/S/23/E/5/0/0/26/PM/N/2616/W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 18:00	10.75	FRAC	36	B	P		<p>FINISH SPOTTING IN EQUIPMENT AND R/U. PRESSURE TEST LINES GOOD @ 8000 PSI. PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S.</p> <p>FRAC STG 1) WHP 1436 PSI, BRK 3501 PSI @ 4.9 BPM. ISIP 2384 PSI, FG .0.73, CALC PERFS OPEN @ 49.1 BPM @ 4110 PSI = 100% HOLES OPEN. 0 ISIP 2289 PSI, FG .0.72, NPI -95 PSI. 0 MP 5295 PSI, MR 49.2 BPM, AP 4056 PSI, AR 48 BPM, PUMPED 30/50 OWATTA SAND.</p> <p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8046', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG 2) WHP 1970 PSI, BRK 2461 PSI @ 4.7 BPM. ISIP 1980 PSI, FG .0.69, CALC PERFS OPEN @ 48.7 BPM @ 4167 PSI = 100% HOLES OPEN. 0 ISIP 2172 PSI, FG .0.71, NPI 192 PSI. 0 MP 4409 PSI, MR 48.8 BPM, AP 4082 PSI, AR 47.4 BPM, PUMPED 30/50 OWATTA SAND.</p> <p>SWI. SDFN.</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-613AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No:

Event: COMPLETION

Start Date: 12/5/2012

End Date: 1/11/2013

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW/0/10/S/23/E/5/0/0/26/PM/N/2616/W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/18/2012	7:00 - 18:00	11.00	FRAC	36	B	P		<p>CONT PERF AND FRAC AS FOLLOWS:</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7831', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG 3) WHP 1405 PSI, BRK 2445 PSI @ 4.7 BPM. ISIP 1735 PSI, FG .0.66, CALC PERFS OPEN @ 52.2 BPM @ 4564 PSI = 100% HOLES OPEN. 0 ISIP 1957 PSI, FG .0.69, NPI 222 PSI. 0 MP 4788 PSI, MR 53.3 BPM, AP 4093 PSI, AR 50.4 BPM, PUMPED 30/50 OWATTA SAND.</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7466', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG 4) WHP 452 PSI, BRK 1998 PSI @ 4.7 BPM. ISIP 1182 PSI, FG .0.6, CALC PERFS OPEN @ 47.9 BPM @ 4007 PSI = 79% HOLES OPEN. 0 ISIP 2423 PSI, FG .0.77, NPI 1241 PSI. 0 MP 4495 PSI, MR 48.2 BPM, AP 4006 PSI, AR 46.8 BPM, PUMPED 30/50 OWATTA SAND.</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6478', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG 5) WHP 130 PSI, BRK 4056 PSI @ 4.7 BPM. ISIP 1882 PSI, FG .0.74, CALC PERFS OPEN @ 43.9 BPM @ 5620 PSI = 67% HOLES OPEN. 0 ISIP 1607 PSI, FG .0.69, NPI -275 PSI. 0 MP 6348 PSI, MR 49.6 BPM, AP 4842 PSI, AR 47.3 BPM, PUMPED 30/50 OWATTA SAND.</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6151', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>SWI. SDFN.</p>
12/19/2012	7:00 - 9:30	2.50	FRAC	46	E	Z		<p>FRAC CREW BLENDER BROKE DOWN. WAIT ON REPAIRS OR REPLACEMENT OF EQUIPMENT.</p>

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-6I3AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No:

Event: COMPLETION

Start Date: 12/5/2012

End Date: 1/11/2013

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW/0/10/S/23/E/5/0/0/26/PM/N/2616/W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/20/2012	7:00 - 18:00	11.00	FRAC	36	B	P		BEGIN PERF AND FRAC. FRAC STG 6) WHP 962 PSI, BRK 3194 PSI @ 4.7 BPM. ISIP 1763 PSI, FG .073, CALC PERFS OPEN @ 47.7 BPM @ 4766 PSI = 71% HOLES OPEN. 0 ISIP 1911 PSI, FG .075, NPI 148 PSI. 0 MP 5392 PSI, MR 53.4 BPM, AP 4113 PSI, AR 50 BPM, PUMPED 30/50 OWATTA SAND. PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=5969', PERF WASATCH USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW FRAC STG 7) WHP 1330 PSI, BRK 1574 PSI @ 4.7 BPM. ISIP 1372 PSI, FG .067, CALC PERFS OPEN @ 51.7 BPM @ 3788 PSI = 92% HOLES OPEN. 0 ISIP 1599 PSI, FG .071, NPI 227 PSI. 0 MP 3886 PSI, MR 51.7 BPM, AP 3355 PSI, AR 51.4 BPM, PUMPED 30/50 OWATTA SAND. SET HAL 8K CBP @5692'. KILL PLUG. SWI. FRAC COMPLETE. READY FOR D/O. TOTAL SAND PUMPED = 148732# TOTAL FLUID PUMPED = 6474BBLS. HSM, MAKEING SURE WELL HEAD IS NOT FROZEN, & PICKING UP TBG. 4 DEGS, ND FV, NU BOPS, RU FLOOR & TBG EQUIP. TALLY & PU 37/8 BIT, POBS, 1.875 X/N & 178 JTS 23/8 L-80 OFF FLOAT. EOT @ 5640', RU DRLG EQUIP, PREP TO D/O IN AM. SWI SDFN. HSM, DRILL CBPS.
1/10/2013	7:00 - 7:30	0.50	DRLOUT			P		
	7:30 - 15:00	7.50	DRLOUT	31	I	P		
1/11/2013	7:00 - 7:30	0.50	DRLOUT	48		P		

US ROCKIES REGION
Operation Summary Report

Well: BONANZA 1023-613AS ORANGE

Spud Date: 7/6/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5L PAD

Rig Name No:

Event: COMPLETION

Start Date: 12/5/2012

End Date: 1/11/2013

Active Datum: RKB @5,238.00usft (above Mean Sea Level)

UWI: SW/NW/0/10/S/23/E/5/0/0/26/PM/N/2616/W/0/126/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 17:00	9.50	DRLOUT	44	C	P		<p>BROKE CIRC CONV, TEST BOPS TO 4,000# RIH.</p> <p>C/O 10' SAND TAG 1ST PLUG @ 5692' DRL PLG IN 5 MIN, 0 PSI INCREASE RIH.</p> <p>C/O 25' SAND TAG 2ND PLUG @ 5969' DRL PLG IN 6 MIN, 0 PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 3RD PLUG @ 6151' DRL PLG IN 6 MIN, 0 PSI INCREASE RIH.</p> <p>C/O 25' SAND TAG 4TH PLUG @ 6478' DRL PLG IN 5 MIN, 100 PSI INCREASE RIH.</p> <p>C/O 25' SAND TAG 5TH PLUG @ 7466' DRL PLG IN 3 MIN, 0 PSI INCREASE RIH.</p> <p>C/O 25' SAND TAG 6TH PLUG @ 7831' DRL PLG IN 2 MIN, 0 PSI INCREASE RIH.</p> <p>C/O 25' SAND TAG 7TH PLUG @ 8046' DRL PLG IN 3 MIN, 0 PSI INCREASE RIH.</p> <p>C/O TO @ 8365', CIRC CLN, HAND SWIVEL, L/D 18 JTS 23/8 L-80, LAND TBG ON 245 JTS, ND BOPS NU WH, TEST FLOW LINE TO 4,000#, PUMP OFF BIT, TURN WELL OVER TO FB CREW. RIG DOWN MOVE OVER & RIG UP ON BON 1023-5L. DRAIN EQUIP, SDFWE.</p> <p>KB = 15' 41/16 HANGER = .83' (SURFACE OPEN & LOCKED) 245 JTS 23/8 L-80 = 7781.87' SICP 1800, FTP 100, POBS W/ 1.875 X/N = 2.20' EOT @ 7799.90'</p> <p>TWTR = 6754 BBLS TWR = 700 BBLS TWLTR = 6054 BBLS</p> <p>283 JTS DELIVERED 245 LANDED 38 TO RETURN WELL IP'D ON 1/13/13 - 1075 MCFD, 0 BOPD, 0 BWPD, CP 750#, FTP 385#, CK 20/64, LP 174#, 24 HRS</p>
1/13/2013	7:00 -			50				

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

UINTAH_BONANZA 1023-5L PAD

BONANZA 1023-6I3AS

BONANZA 1023-6I3AS

Design: BONANZA 1023-6I3AS

Standard Survey Report

18 September, 2012

Andarko Petroleum Corporation

Survey Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BONANZA 1023-6I3AS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	15' RKB + 5223' GL @ 5238.00ft (XTREME 12)
Site:	UINTAH_BONANZA 1023-5L PAD	MD Reference:	15' RKB + 5223' GL @ 5238.00ft (XTREME 12)
Well:	BONANZA 1023-6I3AS	North Reference:	True
Wellbore:	BONANZA 1023-6I3AS	Survey Calculation Method:	Minimum Curvature
Design:	BONANZA 1023-6I3AS	Database:	edmp

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 Wto 108 W)		

Site	UINTAH_BONANZA 1023-5L PAD			
Site Position:		Northing:	14,522,260.93 usft	Latitude: 39.977991
From:	Lat/Long	Easting:	2,100,162.72 usft	Longitude: -109.358958
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 1.05 °

Well	BONANZA 1023-6I3AS			
Well Position	+N-S	0.00 ft	Northing: 14,522,299.35 usft	Latitude: 39.978097
	+E-W	0.00 ft	Easting: 2,100,151.92 usft	Longitude: -109.358994
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level: 5,223.00 ft

Wellbore	BONANZA 1023-6I3AS				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/6/2012	10.87	65.85	52,221

Design	BONANZA 1023-6I3AS			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 11.00
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)
	11.00	0.00	0.00	234.88

Survey Program	Date 9/18/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
188.00	2,437.00	Survey #1 (BONANZA 1023-6I3AS)	MWD	MWD - STANDARD
2,487.00	8,675.00	Survey #2 (BONANZA 1023-6I3AS)	MWD	MWD - STANDARD

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
188.00	0.26	269.19	188.00	-0.01	-0.40	0.33	0.15	0.15	0.00	
272.00	1.14	247.66	271.99	-0.33	-1.37	1.30	1.08	1.05	-25.63	
355.00	2.20	228.59	354.96	-1.69	-3.32	3.69	1.42	1.28	-22.98	
445.00	2.98	233.21	444.86	-4.24	-6.49	7.75	0.90	0.87	5.13	
535.00	4.57	233.34	534.67	-7.78	-11.24	13.67	1.77	1.77	0.14	
625.00	5.95	235.56	624.28	-12.56	-17.97	21.92	1.55	1.53	2.47	
715.00	7.91	233.95	713.62	-18.84	-26.82	32.78	2.19	2.18	-1.79	
805.00	9.32	234.74	802.61	-26.69	-37.78	46.26	1.57	1.57	0.88	
895.00	11.17	236.68	891.17	-35.69	-51.02	62.26	2.09	2.06	2.16	

Andarko Petroleum Corporation

Survey Report

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_BONANZA 1023-5L PAD
Well: BONANZA 1023-6I3AS
Wellbore: BONANZA 1023-6I3AS
Design: BONANZA 1023-6I3AS

Local Co-ordinate Reference: Well BONANZA 1023-6I3AS
TVD Reference: 15' RKB + 5223' GL @ 5238.00ft (XTREME 12)
MD Reference: 15' RKB + 5223' GL @ 5238.00ft (XTREME 12)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
985.00	12.84	236.68	979.20	-45.97	-66.66	80.97	1.86	1.86	0.00
1,075.00	14.86	237.82	1,066.57	-57.61	-84.78	102.49	2.26	2.24	1.27
1,165.00	16.80	238.43	1,153.16	-70.57	-105.63	127.00	2.16	2.16	0.68
1,255.00	18.47	239.40	1,238.92	-84.64	-128.99	154.20	1.88	1.86	1.08
1,345.00	19.17	238.26	1,324.11	-99.67	-153.83	183.16	0.88	0.78	-1.27
1,435.00	20.20	238.96	1,408.85	-115.45	-179.71	213.41	1.17	1.14	0.78
1,525.00	20.49	237.11	1,493.24	-132.02	-206.25	244.65	0.78	0.32	-2.06
1,615.00	20.31	234.83	1,577.59	-149.57	-232.25	276.01	0.91	-0.20	-2.53
1,705.00	20.84	232.90	1,661.85	-168.23	-257.78	307.63	0.96	0.59	-2.14
1,795.00	20.93	234.04	1,745.94	-187.32	-283.56	339.71	0.46	0.10	1.27
1,885.00	20.49	234.83	1,830.13	-205.84	-309.45	371.53	0.58	-0.49	0.88
1,975.00	20.84	236.68	1,914.34	-223.70	-335.71	403.29	0.82	0.39	2.06
2,065.00	20.75	236.41	1,998.47	-241.32	-362.36	435.22	0.15	-0.10	-0.30
2,155.00	20.93	236.94	2,082.59	-258.91	-389.12	467.23	0.29	0.20	0.59
2,245.00	20.14	237.99	2,166.87	-275.89	-415.73	498.76	0.97	-0.88	1.17
2,335.00	18.64	237.82	2,251.76	-291.76	-441.04	528.60	1.67	-1.67	-0.19
2,437.00	18.82	236.24	2,348.36	-309.59	-468.52	561.33	0.53	0.18	-1.55
TIE ON									
2,487.00	18.60	234.27	2,395.72	-318.73	-481.70	577.36	1.34	-0.44	-3.94
FIRST MWD SURVEY									
2,556.00	18.98	229.53	2,461.04	-332.44	-499.17	599.54	2.28	0.55	-6.87
2,645.00	20.71	226.52	2,544.76	-352.66	-521.60	629.52	2.26	1.94	-3.38
2,733.00	21.00	227.77	2,626.99	-373.97	-544.56	660.56	0.60	0.33	1.42
2,819.00	20.88	229.27	2,707.31	-394.32	-567.59	691.11	0.64	-0.14	1.74
2,909.00	21.81	231.39	2,791.14	-415.22	-592.81	723.76	1.34	1.03	2.36
2,996.00	21.44	232.77	2,872.02	-434.93	-618.10	755.78	0.72	-0.43	1.59
3,082.00	20.44	234.64	2,952.34	-453.13	-642.86	786.50	1.40	-1.16	2.17
3,170.00	19.13	232.89	3,035.14	-470.72	-666.89	816.28	1.63	-1.49	-1.99
3,259.00	18.69	235.77	3,119.34	-487.54	-690.31	845.12	1.16	-0.49	3.24
3,348.00	19.44	236.27	3,203.46	-503.79	-714.42	874.18	0.86	0.84	0.56
3,438.00	19.00	235.52	3,288.44	-520.40	-738.95	903.80	0.56	-0.49	-0.83
3,526.00	18.88	236.14	3,371.68	-536.44	-762.58	932.36	0.27	-0.14	0.70
3,615.00	18.25	237.64	3,456.04	-551.92	-786.31	960.68	0.89	-0.71	1.69
3,704.00	17.06	237.39	3,540.85	-566.42	-809.08	987.64	1.34	-1.34	-0.28
3,793.00	16.06	237.02	3,626.16	-580.15	-830.41	1,012.99	1.13	-1.12	-0.42
3,881.00	16.31	239.52	3,710.67	-593.05	-851.27	1,037.47	0.84	0.28	2.84
3,970.00	15.38	236.64	3,796.29	-605.88	-871.89	1,061.72	1.37	-1.04	-3.24
4,058.00	15.38	239.02	3,881.14	-618.30	-891.65	1,085.03	0.72	0.00	2.70
4,147.00	15.25	239.52	3,966.98	-630.31	-911.85	1,108.46	0.21	-0.15	0.56
4,236.00	12.13	236.64	4,053.44	-641.40	-929.75	1,129.48	3.59	-3.51	-3.24
4,324.00	11.63	237.02	4,139.56	-651.31	-944.92	1,147.59	0.58	-0.57	0.43
4,410.00	11.38	234.27	4,223.83	-660.98	-959.08	1,164.73	0.70	-0.29	-3.20
4,498.00	10.69	239.27	4,310.20	-670.22	-973.14	1,181.55	1.34	-0.78	5.68

Andarko Petroleum Corporation

Survey Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BONANZA 1023-6I3AS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	15' RKB + 5223' GL @ 5238.00ft (XTREME 12)
Site:	UINTAH_BONANZA 1023-5L PAD	MD Reference:	15' RKB + 5223' GL @ 5238.00ft (XTREME 12)
Well:	BONANZA 1023-6I3AS	North Reference:	True
Wellbore:	BONANZA 1023-6I3AS	Survey Calculation Method:	Minimum Curvature
Design:	BONANZA 1023-6I3AS	Database:	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,587.00	9.19	249.14	4,397.87	-676.97	-986.88	1,196.67	2.54	-1.69	11.09
4,674.00	6.94	247.52	4,484.00	-681.46	-998.23	1,208.54	2.60	-2.59	-1.86
4,762.00	6.50	244.27	4,571.40	-685.65	-1,007.63	1,218.64	0.66	-0.50	-3.69
4,852.00	4.44	241.77	4,660.99	-689.51	-1,015.29	1,227.13	2.30	-2.29	-2.78
4,942.00	5.92	254.69	4,750.62	-692.39	-1,022.83	1,234.95	2.08	1.64	14.36
5,031.00	4.63	242.02	4,839.24	-695.28	-1,030.43	1,242.83	1.94	-1.45	-14.24
5,118.00	2.13	216.27	4,926.09	-698.23	-1,034.49	1,247.85	3.29	-2.87	-29.60
5,208.00	0.13	110.64	5,016.07	-699.62	-1,035.39	1,249.38	2.41	-2.22	-117.37
5,297.00	2.31	41.64	5,105.04	-698.31	-1,034.10	1,247.58	2.55	2.45	-77.53
5,383.00	2.19	40.14	5,190.98	-695.76	-1,031.89	1,244.30	0.16	-0.14	-1.74
5,471.00	1.88	44.89	5,278.92	-693.45	-1,029.79	1,241.25	0.40	-0.35	5.40
5,559.00	1.50	53.64	5,366.88	-691.75	-1,027.84	1,238.68	0.52	-0.43	9.94
5,647.00	1.44	60.64	5,454.85	-690.52	-1,025.95	1,236.43	0.21	-0.07	7.95
5,735.00	1.25	85.52	5,542.83	-689.91	-1,024.03	1,234.50	0.69	-0.22	28.27
5,824.00	1.44	91.77	5,631.81	-689.87	-1,021.94	1,232.77	0.27	0.21	7.02
5,912.00	0.13	234.27	5,719.80	-689.96	-1,020.92	1,231.99	1.76	-1.49	161.93
5,999.00	0.81	287.77	5,806.79	-689.83	-1,021.58	1,232.46	0.85	0.78	61.49
6,089.00	1.75	339.52	5,896.77	-688.35	-1,022.67	1,232.49	1.56	1.04	57.50
6,179.00	1.81	336.14	5,986.73	-685.76	-1,023.73	1,231.87	0.13	0.07	-3.76
6,266.00	1.38	335.64	6,073.70	-683.55	-1,024.71	1,231.41	0.49	-0.49	-0.57
6,355.00	1.31	326.39	6,162.67	-681.72	-1,025.72	1,231.18	0.26	-0.08	-10.39
6,443.00	0.44	74.14	6,250.66	-680.79	-1,025.95	1,230.83	1.71	-0.99	122.44
6,532.00	0.75	102.77	6,339.66	-680.83	-1,025.05	1,230.12	0.47	0.35	32.17
6,618.00	0.56	105.27	6,425.65	-681.07	-1,024.10	1,229.47	0.22	-0.22	2.91
6,708.00	0.75	120.39	6,515.65	-681.48	-1,023.17	1,228.95	0.28	0.21	16.80
6,797.00	0.94	125.77	6,604.64	-682.20	-1,022.07	1,228.47	0.23	0.21	6.04
6,883.00	1.25	124.14	6,690.62	-683.14	-1,020.72	1,227.91	0.36	0.36	-1.90
6,971.00	1.38	131.02	6,778.60	-684.37	-1,019.13	1,227.31	0.23	0.15	7.82
7,059.00	0.38	172.52	6,866.59	-685.36	-1,018.29	1,227.19	1.28	-1.14	47.16
7,146.00	0.31	22.39	6,953.59	-685.43	-1,018.17	1,227.13	0.77	-0.08	-172.56
7,233.00	0.38	82.14	7,040.59	-685.17	-1,017.79	1,226.67	0.40	0.08	68.68
7,321.00	0.69	111.52	7,128.58	-685.32	-1,017.01	1,226.12	0.46	0.35	33.39
7,410.00	0.50	57.52	7,217.58	-685.31	-1,016.18	1,225.44	0.64	-0.21	-60.67
7,497.00	0.69	98.14	7,304.57	-685.18	-1,015.34	1,224.68	0.52	0.22	46.69
7,587.00	0.81	2.64	7,394.57	-684.62	-1,014.78	1,223.90	1.24	0.13	-106.11
7,676.00	0.81	357.89	7,483.56	-683.37	-1,014.77	1,223.17	0.08	0.00	-5.34
7,765.00	0.56	4.52	7,572.55	-682.30	-1,014.76	1,222.55	0.29	-0.28	7.45
7,853.00	0.50	87.27	7,660.55	-681.86	-1,014.34	1,221.95	0.80	-0.07	94.03
7,943.00	0.63	112.39	7,750.55	-682.03	-1,013.49	1,221.35	0.31	0.14	27.91
8,030.00	1.13	130.77	7,837.54	-682.77	-1,012.40	1,220.89	0.65	0.57	21.13
8,120.00	1.81	136.27	7,927.51	-684.38	-1,010.75	1,220.46	0.77	0.76	6.11
8,209.00	2.19	136.49	8,016.45	-686.63	-1,008.60	1,220.00	0.43	0.43	0.25
8,297.00	2.13	138.89	8,104.39	-689.08	-1,006.37	1,219.58	0.12	-0.07	2.73
8,387.00	2.38	141.64	8,194.32	-691.80	-1,004.11	1,219.30	0.30	0.28	3.06

Andarko Petroleum Corporation

Survey Report

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well BONANZA 1023-6I3AS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference:	15' RKB + 5223' GL @ 5238.00ft (XTREME 12)
Site:	UINTAH_BONANZA 1023-5L PAD	MD Reference:	15' RKB + 5223' GL @ 5238.00ft (XTREME 12)
Well:	BONANZA 1023-6I3AS	North Reference:	True
Wellbore:	BONANZA 1023-6I3AS	Survey Calculation Method:	Minimum Curvature
Design:	BONANZA 1023-6I3AS	Database:	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,475.00	2.19	133.76	8,282.25	-694.40	-1,001.76	1,218.87	0.42	-0.22	-8.95
8,625.00	2.49	147.45	8,432.13	-699.13	-997.94	1,218.47	0.42	0.20	9.13
LAST MWD SURVEY									
8,675.00	2.49	147.45	8,482.08	-700.96	-996.77	1,218.56	0.00	0.00	0.00
PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,437.00	2,348.36	-309.59	-468.52	TIE ON
2,487.00	2,395.72	-318.73	-481.70	FIRST MWD SURVEY
8,625.00	8,432.13	-699.13	-997.94	LAST MWD SURVEY
8,675.00	8,482.08	-700.96	-996.77	PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____